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The

1996

GUIDE to the

EVALUATION of

EDUCATIONAL

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ARMED SERVICES

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ARMED SERVICES

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Foreword

For over 50 years, the *Guide to the Evaluation of Educational Experiences in the Armed Services* has been the standard reference work for recognizing learning acquired in military life. ACE has worked cooperatively with the Department of Defense and the armed services in assisting hundreds of thousands of servicemembers to achieve recognition for their learning. The long-term success of the *Guide* evaluation system for military training has resulted in its serving as a model for the evaluation of programs offered by other noncollegiate organizations, including business, industry, government agencies, voluntary and professional associations, and labor unions. These formalized efforts to evaluate noncollegiate-sponsored programs enable students to combine their extrainstitutional learning with study at postsecondary institutions to achieve degree-related educational objectives. Not only is this sound educational practice, it is also an efficient use of educational resources and an incentive for the persons affected to undertake further study.

Special recognition must be paid to hundreds of individuals who have served as evaluators and to the many educational institutions, and professional and disciplinary associations for their wholehearted cooperation in this endeavor. Without their support and assistance, the *Guide* would not have been possible. We are greatly indebted to them.

Once again, we are pleased to commend this *Guide* to you as you continue to work with servicemembers and veterans.

Robert H. Atwell

President

American Council on Education

HOW TO FIND AND USE ARMY COURSE EXHIBITS

Step 4

Match the course-identifying information with the corresponding data in the course exhibit.

First determine that the dates of attendance fall within the dates in the exhibit, and select the appropriate version. Other course-identifying information includes the official military title, military course number, length of course, dates of attendance, location, etc. This information is provided by the applicant on the *Request for Course Recommendation* form. It is important to match all items.

Step 5

Read the course description.

Consideration should be given not only to the amount of credit and to the subject area, but also to the learning outcomes or course objectives, and instruction cited in the course exhibit. These portions of the exhibit outline the course content and scope and also provide essential information about the nature of the course. This information will help you determine the appropriate placement of credit for each individual student within the requirements and programs at your institution.

For course exhibits before 1/90, see the *1954-1989 Guide to the Evaluation of Educational Experiences in the Armed Services*.

Step 6

Award credit as appropriate.

Users are free to modify the credit recommendations in accordance with institutional policy and the educational goals of each applicant.

Step 7

If assistance is required, contact the American Council on Education.

Whenever problems arise and assistance is needed, submit a properly completed *Request for Course Recommendation* form to:

The Center for Adult Learning and Educational
Credentials
American Council on Education
One Dupont Circle
Washington, DC 20036-1193
ATTN: Military Evaluations Program
(202) 939-9470
FAX (202) 775-8578

Sample Course Exhibit

ID Number. An identification number assigned by ACE to identify each course.

Military Course Number. The number assigned to the course by the military. Listed by version, if appropriate.

Length. The length of the course in weeks, with contact hours in parentheses. Listed by version.

Learning Outcome. Competencies students acquire during the course. Older courses have *Objectives*.

Credit Recommendation. By version. Recommended in four categories: vocational certificate, lower-division baccalaureate/associate degree, upper division baccalaureate, and graduate. Expressed in semester hours. (See Appendix A for detailed explanation of credit categories.)

Related Occupation. A cross reference to related MOS exhibits. Officials awarding credit for a course and an MOS should compare the exhibit for the course with that for the MOS before awarding credit.

AR-1703-0037

HEAVY WHEEL VEHICLE MECHANIC

Course Number: *Version 1:* 610-63S10. *Version 2:* 610-63S10.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD; Training Center, Ft. Jackson, SC.

Length: *Version 1:* 11-12 weeks (427 hours). *Version 2:* 13 weeks (476 hours).

Exhibit Dates: *Version 1:* 3/90–Present. *Version 2:* 1/90–2/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform repairs on heavy automotive wheel vehicles and materials handling equipment including gas/diesel engine troubleshooting and overhaul, electrical systems, basic brake systems, basic steering and suspension system, power train maintenance, and hydraulic system maintenance. *Version 2:* The student will be able to perform repairs on heavy automotive wheel vehicles and materials handling equipment including gas/diesel engine troubleshooting and overhaul, electrical systems, basic brake systems, basic steering and suspension system, power train maintenance, and hydraulic system maintenance.

Instruction: *Version 1:* Lectures and practical exercises in troubleshooting and repairing of engine systems, fuel, air, and exhaust systems, automotive electrical systems, brake systems, steering and suspension systems, and hydraulic systems. *Version 2:* Lectures and practical exercises in troubleshooting and repairing of gasoline engine systems, fuel, air, and exhaust systems, automotive electrical systems, brake systems, heavy duty steering and suspension systems, and hydraulic systems.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in automotive engine service, 2 in basic automotive electrical, 1 in basic automotive brakes, 1 in basic steering and suspension systems, and 2 in basic hydraulic systems (12/90). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in heavy duty gasoline engine systems, 1 in automotive electrical, 1 in heavy duty brakes hydraulic/air, and 1 in heavy duty steering and suspension services (12/90).

Related Occupations: 63S.

Title. Version 1 (if applicable) is the more recent. If course has only one version, version number is omitted throughout exhibit.

Location. By version. The service school, military installation, state.

Exhibit Dates. Listed by version. Training start date on materials evaluated and, if applicable, the date the training was eliminated. "Present" denotes publication cut-off for this edition of the Guide (4/96). The earliest start date in this edition is 1/90.

Instruction. Description of instruction, including teaching methods, facilities, equipment, major subject areas covered.

Evaluation Date. Date when the credit recommendation was established. Month and year are given in parentheses following each recommendation.

How to Find and Use Army MOS Exhibits

This volume contains recommendations for all Army enlisted military occupational specialties (MOS's) with exhibit dates of 1/90 and later.

The instructions that follow provide a step-by-step procedure for finding and using the MOS exhibits and recommendations. Readers unfamiliar with how MOS's are structured and how MOS proficiency is demonstrated should read Appendix A.

Step 1

Have the applicant submit official documentation.

Several records may be used for MOS verification. The applicant may submit one or several of the following forms:

Enlisted Personnel:

- *Army/American Council on Education Registry Transcript System (AARTS Transcript)* This transcript may be used for verifying MOS's held. It documents military training and experience for regular Army enlisted active-duty personnel and veterans with basic active service dates falling on or after October 1, 1981; and Army National Guard enlisted personnel and veterans on the active rolls as of January 1, 1993, with pay entry basic dates/basic active service dates falling on or after October 1, 1981. Write to AARTS Operations Center, 415 McPherson Avenue, Ft. Leavenworth, KS 66027-1373. DA Form 5454R, *Request for Army/American Council on Education Transcript* is found in this volume and may be duplicated.
- DD Form 295, *Application for the Evaluation of Learning Experiences During Military Service*. This form may be used when it contains occupational information. The April 1975 version contains the section "Major Service Jobs or Billets." The June 1979 and November 1986 versions have a section entitled "Military Occupational History." Check for MOS designation, title, and period during which the MOS was held. The form may also list test scores and dates. The form must be certified by an authorized commissioned officer or his/her designee to be official.
- DD Form 214, *Certificate of Release or Discharge from Active Duty*. This form may be used for verifying an MOS but will not necessarily provide the dates during which the MOS was held. Check Item 11 for MOS designation, title, and years and months in the MOS.
- DA Form 2166-5, *Enlisted Evaluation Report (EER)*. This document contains the supervisor's rating. It provides ratings on duty performance traits, demonstrated overall performance of assigned duties, and advancement potential. Because supervisor's ratings are subjective, one EER alone is seldom sufficient to validate proficiency.
- DA Form 2166-5A, *Senior Enlisted Evaluation Report (SEER)*. This document provides ratings on performance qualities, leadership skills, demonstrated overall performance, and advancement potential. The maximum score attainable on EERs and SEERs is 125. EERs were formerly given to those in paygrades E-4 and E-5, while E-6 and above received SEERs. Then EERs were discontinued, and those in paygrades E-5 through E-7 were given SEERs. Those in paygrades E-4, E-8, and E-9 were not evaluated. Both EERs and SEERs have been discontinued.
- DA Form 2166-1, *NCO Evaluation Report (NCOER)*. Current supervisor's rating, replacing EERs and SEERs. This document provides description and scope of duties, and ratings and written comments about the NCO's MOS competence, leadership abilities, training responsibilities, and responsibility and accountability. Check Part IV for a success rating (meets standards) or an excellence rating (exceeds standards) in sections b, d, e, and f. In Part V, determine that an overall rating of fully capable or among the best has been achieved.
- USAEREC Form 10A and EREC Form 10, *Enlisted Evaluation Data Report*. *Enlisted Evaluation Data Report* replaces USAEEC Form 10. This record provides an EER weighted average (EERWA) score. It also lists raw SQT scores along with a percentile score. The percentile compares the soldier with others who have taken the test in that MOS.
- DA Form 2-I, *Personnel Qualifications Record*. This record provides a summary of a soldier's career, including MOS's held, courses taken, and awards received. Item 6 lists each MOS designation and skill level, title, and date held. Item 35 lists the soldier's assignments, with MOS and skill level designations, and the effective date of the assignment.
- DA Form 20, *Enlisted Qualification Record*. Sections 22 and 23 provide the MOS code, title, date awarded, and MOS evaluation scores and dates. Section 38 lists duty positions held and dates.
- *Individual Soldier's Report (ISR)*. This form reports

HOW TO FIND AND USE ARMY MOS EXHIBITS

SQT results. Check for the MOS designation, skill level, dates, and a score report. After August 1983, a score of 60 or above indicates that the individual has qualified in the MOS for the Army's purposes.

Step 2

Verify each occupational specialty the person has successfully held.

When verifying enlisted MOS's, it is important to identify the skill level. Since the higher skill levels of an MOS encompass the duties of the lower skill levels (i.e., a person with MOS 12B40 is able to perform the duties of 12B30), the credit recommendation for MOS 12B40 would include the recommendation for 12B30. Thus, you need to verify the highest skill level a person held.

To determine an individual's eligibility for the award of MOS credit, determine the dates the MOS was held and follow the appropriate instructions from the following list:

- January 1990 - September 1991. Check for a score of 60 or above on the SQT; if score is not available, use EERs, SEERs, or NCOERs.
- October 1991-September 1993. The SQT was replaced by the Self-Development Tests (SDT) for skill levels 20-40. The SDT was phased in gradually during this time period and was not reviewed by ACE during its pilot stage. Use NCO Evaluation Reports. There is no longer Army formal assessment for Skill Level 10 personnel.
- October 1993-February 1995. The Self-Development Test (SDT) received ACE's endorsement for use as an indicator of MOS proficiency. Credit may be awarded for enlisted MOS's at skill levels 20-40 when an SDT score of 70 percent or greater is achieved. SDT scores will be reported on the AARTS transcript and on the Individual Soldiers Report (ISR). If score is not available, use NCOERs. For further information, see Appendix A.
- March 1995-Present. The Army discontinued offering the SDT as of February 1995. ACE looked into the possibility of using NCOERs as the sole indicator of MOS proficiency. A feasibility study was conducted at four Army installations. It was found that while the NCOER is an indicator of competency in management skills, it falls short as an indicator of technical competence.

Further study led to the following interim policy:

After 3/95, only soldiers in skill levels 30, 40, and 50 will be eligible for management credit based on the NCOER. They will also be eligible to receive the technical credit recommended for the preceding skill level.

The MOS exhibits in this *Guide* have been modified to

reflect this. Once further evaluations are completed and sufficient data are gathered, ACE will decide whether to make this policy a permanent one, to modify it, or to suspend it. Further information will appear in subsequent *Guide Handbooks*, the *DANTES Bulletin*, and the *Center Update*.

Step 3

Find the appropriate exhibit in the Guide.

Find the information necessary for locating the correct MOS exhibit. Pertinent information includes the MOS designation, the MOS title, the dates each MOS was held, and, when appropriate, the date associated with an MOS evaluation (MOS Evaluation Test score, SQT results, EER/SEER, NCOER). If you cannot verify MOS proficiency through a careful examination of military records, you may wish to conduct your own assessment. *Verification of MOS proficiency should always precede the granting of credit or advanced standing.*

The exhibit(s) for a given MOS can easily be found when the MOS designation is known. Each MOS exhibit is assigned an ACE ID number that has three components. The first component, MOS, identifies the exhibit as one that describes an Army military occupational specialty. The second component consists of the MOS designation, e.g., 81C or 211A. The third component, a three-digit, sequentially assigned number, e.g., -001, -002, -003, uniquely identifies the exhibit. Enlisted MOS exhibit ID numbers have nine characters, e.g., MOS-81C-001.

If only the title of the MOS is known, the exhibit ID number(s) can be found by referring to the *Occupational Title Index*.

There may be several exhibits for an MOS. Each time there is a new recommendation for an MOS, there is a new exhibit. For example, three exhibits appear for MOS 12B. The ACE ID numbers for the three exhibits are MOS-12B-001, MOS-12B-002, and MOS-12B-003. The oldest exhibit for the MOS, the first to be evaluated, is assigned -001 as the last three characters. The last exhibit for an MOS, the exhibit ending in the highest number, is the most recent.

When there is more than one exhibit, select the correct one by referring to the exhibit dates that conform to the time frame in which the individual held the MOS. The exhibit dates for each new exhibit establish continuity with the previous exhibit. If the end date for the first exhibit is 1/91, the start date for the next exhibit is 2/91. In many cases, the date of the soldier's last MOS evaluation will indicate which exhibit is most appropriate.

When the time period that a person held an MOS skill

HOW TO FIND AND USE ARMY MOS EXHIBITS

level spans more than one exhibit for the MOS, exercise your own judgment in deciding which exhibit is more appropriate. If the credit granted in the earlier exhibit does not appear in a later exhibit, the credit that was dropped may be awarded. This is based on the fact that since that skill was required during the earlier time frame, it should not be taken away from the individual just because it is no longer a requirement of that MOS.

Step 4

Read the entire exhibit.

Although credit is granted for a particular skill level of an MOS, users are urged to read the entire MOS exhibit. Doing so will make possible the most appropriate application of the recommendation to the student's program of study at your institution. Each item in the exhibit has been prepared to help users interpret the credit recommendations. (See sample exhibit.)

The descriptions, which are similar to learning outcome statements of postsecondary courses and programs of study, provide essential information about the learning required for proficiency in the MOS. Comparing the MOS description with a description of the course or program of study that the student will pursue at your institution will help you to:

- determine how much of the recommended credit applies to the course or program of study at your institution;
- identify additional areas of possible credit;
- resolve problems with duplication of credit when the applicant has applied for credit for more than one military learning experience; and
- place the student at the appropriate point in the course sequence or program of study.

In addition, the exhibits contain special notes on career progression. Enlisted MOS descriptions often include special notes on prerequisite MOS's and normal patterns of career progression.

Step 5

Award credit as appropriate.

The credit recommendations are advisory. They are intended to assist in placing active-duty personnel and veterans in postsecondary programs of study and jobs. The recommendations may be modified.

When an applicant has applied for credit for more than one military learning experience, you may have to reduce the total amount of credit recommended to avoid granting duplicate credit.

Step 6

If assistance is required, contact the American Council on Education.

Whenever problems arise and assistance is needed, submit a properly completed *Request for Army Enlisted and Warrant Officer MOS Exhibits Recommendation* form to:

The Center for Adult Learning and Educational
Credentials
American Council on Education
One Dupont Circle
Washington, DC 20036-1193
ATTN: Military Evaluations Program
(202) 939-9470

For course exhibits before 1/90, see the *1954-1989 Guide to the Evaluation of Educational Experiences in the Armed Services*.

Sample Enlisted MOS Exhibit

ID Number. A nine-character code assigned by ACE to identify each enlisted MOS exhibit.

MOS Designation. The five-character codes that identify the MOS and each of its skill levels. An MOS may have as many as five skill levels (e.g., Skill Levels 10, 20, 30, 40 and 50) or as few as one. The enlisted MOS structure is fully described in Appendix A.

Career Management Field. Two digits and a title designating a group of related MOS's; if divided into subfields (three digits and a title), the subfield is also provided. When a person has held more than one MOS in the same career management field or subfield, you should be alert to the possibility of overlapping recommendations

Description. A summary description applying to all skill levels and a specific description for each skill level. Provides information about the duties performed and the qualifications required for proficiency in the MOS. It indicates the rationale behind a given recommendation and provides information that can be used as a starting point should you wish to conduct further assessment of the learning a soldier or veteran has acquired. The description is also useful in making decisions when recommendations from more than one learning experience appear to duplicate each other.

MOS-63S-002

HEAVY WHEEL VEHICLE MECHANIC
63S10
63S20

Exhibit Dates: 8/92 - Present

Career Management Field: 63 (Mechanical Maintenance)

Description

Summary: Performs maintenance on heavy wheel vehicles and material-handling equipment. **Skill Level 10:** Replaces engine components such as fuel pumps, generators, starters, regulators, radiators, universal joints, brake shoes, engine mounts, and lines and fittings; adjusts operating mechanisms; prepares maintenance forms and records. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; troubleshoots and uses diagnostic equipment to identify malfunctions; interprets complex schematic diagrams; completes maintenance forms and records; conducts on-the-job training.

Recommendation, Skill Level 10

Credit may be granted on the basis of individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in diesel fuel systems, 3 in electrical systems, 3 in brake systems, 3 in heavy duty drive trains, 3 in diesel engine fundamentals, 3 in military science, and 3 in personnel supervision NOTE: This recommendation for skill level 20 is valid for the dates 8/92-2/95 only) (8/92).

Title. The official Army title of the MOS during the period of the exhibit dates. If the title changed during that period, the newer title is given first and the older title is given in parentheses on the next line.

Exhibit Dates. Start and end dates by month and year. When an end date is given, the MOS was either discontinued (an explanation is provided) or changed (another exhibit will follow for the MOS, e.g., MOS-13B-004). An end date of "Present" indicates that the MOS still exists and the exhibit is current as of May 1996. Some exhibits will end with the phrase "Pending evaluation." The earliest start date in this edition is 1/90.

Recommendation. By skill level. Only the recommendation for the *highest* skill level held should be used; skill-level recommendations should *not* be added.

Educational credit is recommended in four categories: vocational certificate, lower-division baccalaureate/associate degree, upper-division baccalaureate, and graduate degree. (See Appendix A for category definitions.)

Date of Evaluation. By month and year. Follows the recommendation for each skill level.

How to Find and Use Army Warrant Officer MOS Exhibits

This volume contains recommendations for all Army warrant officer military occupational specialties (MOS's) with exhibit dates of 1/90 and later.

The instructions that follow provide a step-by-step procedure for finding and using the MOS exhibits and recommendations. Readers unfamiliar with how the warrant officer MOS's are structured should read Appendix A.

Step 1

Have the applicant submit official documentation.

Several records may be used for warrant officer MOS verification. A servicemember or veteran may submit one or several of the following forms:

- DA Form 67-8, *Officer Evaluation Report (OER)*. See section on duty description for MOS designation, performance evaluation, and performance and potential evaluation.
- DA Form 67-8-1, *Officer Evaluation Report Support Form*. See written statements by the rated officer and the rater.
- DA Form 2-1, *Personnel Qualifications Record*. See items 3 and 6 for MOS designation, relevant dates, and dates of evaluation.
- DA Form 66, *Officer Qualification Record*. See section 9 for MOS designation, title, and relevant dates.
- DA Form 4037, *Officer Record Brief*. See section I for MOS designations and titles.

Step 2

Verify each occupational specialty the person has successfully held.

Many warrant officers began their careers as enlisted personnel; in such cases, warrant officers should also submit their enlisted records for evaluation. See the section "How to Find and Use Army Enlisted MOS Exhibits" for step-by-step instructions for granting credit for enlisted MOS's.

Army records must be requested by the individual. Records may be obtained as follows:

Active-duty. The Army installation to which he or she is assigned.

Army National Guard personnel. The National Guard unit to which he or she is assigned.

Army Reservist or retired personnel. The U.S. Army Reserve Component and Administrative Center (TAGO), 9700 Page Avenue, St. Louis, MO 63132.

Army veteran. General Services Administration, National Personnel Records Center (Military Personnel Records), 9700 Page Avenue, St. Louis, MO 63132. The veteran may request service records by submitting U.S. Government Standard Form 180, which may be obtained from a state's veterans affairs office, the Veterans Administration, or the National Personnel Records Center. It can also be reproduced from Appendix B.

Step 3

Find the appropriate exhibit in the Guide.

Find the information necessary for locating the correct MOS exhibit. Pertinent information includes the MOS designation, the MOS title, and the dates each MOS was held. The exhibit(s) for a given MOS can easily be found when the MOS designation is known. Each MOS exhibit is assigned an ACE ID number that has three components. The first component, MOS, identifies the exhibit as one that describes an Army warrant officer military occupational specialty. The second component consists of the MOS designation, e.g., 211A, 256A. The third component, a three-digit, sequentially assigned number, e.g., -001, -002, -003, uniquely identifies the exhibit. Warrant officer MOS exhibit ID numbers have ten characters, e.g., MOS-271A-001. Exhibits are arranged by ACE ID number.

If only the title of the MOS is known, the exhibit ID number(s) can be found by referring to the *Occupational Title Index*.

There may be several exhibits for an MOS. Each time there is a new recommendation for an MOS, there is a new exhibit. For example, three exhibits appear for MOS 140B. The ACE ID numbers for the three exhibits are MOS-140B-001, MOS-140B-002, and MOS-140B-003. The oldest exhibit for the MOS, the first to be evaluated, is assigned -001 as the last three characters. The last exhibit for an MOS, the exhibit ending in the highest number, is the most recent.

When there is more than one exhibit, select the correct one by referring to the exhibit dates that conform to the time frame in which the individual held the MOS. The exhibit dates for each new exhibit establish continuity with the previous exhibit. If the end date for the first exhibit is 1/91, the start date for the next exhibit is 2/91. In many cases, the date of the soldier's last MOS evaluation will indicate which exhibit is most appropriate. However, when the time period that a person held an MOS skill level spans more than one exhibit for the MOS, you should exercise your own judgment in deciding which exhibit is more appropriate.

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HOW TO FIND AND USE ARMY WARRANT OFFICER MOS EXHIBITS

Step 4

Read the entire exhibit.

Although credit is granted for a particular skill level of an MOS, users are urged to read the entire MOS exhibit. Doing so will make possible the most appropriate application of the recommendation to the student's program of study at your institution. Each item in the exhibit has been prepared to help users interpret the credit recommendations. (See sample exhibits.)

The descriptions, which are similar to learning outcome statements of postsecondary courses and programs of study, provide essential information about the learning required for proficiency in the MOS. Comparing the MOS description with a description of the course or program of study that the student will pursue at your institution will help you

- determine how much of the recommended credit applies to the course or program of study at your institution;
- identify additional areas of possible credit;
- resolve problems with duplication of credit when the applicant has applied for credit for more than one military learning experience; and
- place the student at the appropriate point in the course sequence or program of study.

In addition, in warrant officer MOS exhibits, the exhibits contain special notes on career progression, other MOS's an individual may have held are listed in the exhibit item Career Pattern.

Step 5

Award credit as appropriate.

The MOS recommendations are advisory. They are intended to assist in placing enlisted soldiers, warrant officers, and veterans in postsecondary programs of study. The recommendations may be modified.

When an applicant has applied for credit for more than one military learning experience, you may have to reduce the total amount of credit recommended to avoid granting duplicate credit.

Step 6

If assistance is required, contact the American Council on Education.

Whenever problems arise and assistance is needed, submit a properly completed *Request for Army Enlisted and Warrant Officer Recommendation* form to:

The Center for Adult Learning and Educational
Credentials
American Council on Education
One Dupont Circle
Washington, DC 20036-1193
ATTN: Military Evaluations Program
(202) 939-9470
FAX (202) 775-8578

For course exhibits before 1/90, see the *1954-1989 Guide to the Evaluation of Educational Experiences in the Armed Services*.

Sample Warrant Officer MOS Exhibit

ID Number. A ten-character code assigned by ACE to identify each warrant officer MOS exhibit.

MOS Designation. The four-character code that identifies the MOS plus the neutral fifth character, zero ("0"). The zero is added as a reminder that the MOS evaluation does not include the evaluation of learning associated with Special Qualifications Identifiers (SQIs). When a person's MOS designation includes an SQI, signified by a letter or number other than zero as the fifth character, additional credit may be granted on the basis of individual assessment (refer to Appendix E).

Description. Provides information about the duties performed and the qualifications required for proficiency in the MOS. It indicates the rationale behind a given credit recommendation and provides information that can be used as a starting point should you wish to conduct further assessment of the learning a warrant officer or veteran has acquired. The description is also useful in making decisions about how much credit to grant when credit recommendations from more than one learning experience appear to duplicate each other.

MOS-915A-002

WHEEL VEHICLE MAINTENANCE TECHNICIAN
(LIGHT)
915A0

Exhibit Dates: 8/92- Present

Career Pattern

May have progressed from any of the following MOS's: 62B, 63B, 63D, 64E, 65E, 63G, 63N, 63S, 63T, 63Y, 63W, or 63Z.

Description

Plans, organizes, and performs unit maintenance on wheel vehicles, light track vehicles (except Bradley), self-propelled artillery systems, fire control, armament, ground support, and power-driven chemical equipment; analyzes unit equipment malfunctions; directs unit work loads; enforces fire and safety programs; manages calibration, oil analysis, and readiness reports; using the Army maintenance management system, manages periodic maintenance, vehicle dispatcher, vehicle repair, and common task training; conducts technical inspections of units; establishes procedures; instructs subordinate personnel; supervises personnel assigned to maintenance sections, motor pools, or similar activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 2 in records and information management, and 2 in computer applications. If rank was CW2 or CW3: 1 additional semester hour in computer applications. If rank was CW4: 2 additional semester hours in computer applications. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management. If rank was CW2, 3 additional semester hours for field experience in management, 3 in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 in fleet maintenance management. If rank was CW3, 5 additional semester hours for field experience in management, 3 in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 in fleet maintenance management. If rank was CW4, 7 additional semester hours for field experience in management, 3 in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 in fleet maintenance management (8/92).

Title. The official Army title of the MOS during the period of the exhibit dates. If the title changed during that period, the newer title is given first and the older title is given in parentheses on the next line. A title in the exhibit may be different from the title that appears on the person's Army records. The latter title may be a Special Qualifications Identifier.

Exhibit Dates. Start and end dates by month and year. An end date of "Present" indicates that the exhibit is current as of March 1994. The earliest start date in this edition is 1/90. (See questions 1-4 in Questions and Answers.) Some exhibits will end with the phrase "Pending evaluation."

Career Pattern. Enlisted or other warrant officer MOS's that an individual may have held. You should be alert to the possibility of overlapping recommendations when a warrant officer has held one or more of these MOS's.

Recommendation. Educational credit is recommended in four categories: vocational certificate, lower division baccalaureate/associate degree, upper-division baccalaureate, and graduate degree. (See Appendix A for category definitions.)

Date of Evaluation. By month and year.

Questions and Answers

This section is designed to answer questions that may arise about using the Guide and awarding credit.

1. I have several editions of the *Guide to the Evaluation of Educational Experiences in the Armed Services*. Do I need to keep all of these?

The *Guide to the Evaluation of Educational Experiences in the Armed Services* has been published biennially since 1974. Each edition replaces the previous edition, which should be discarded.

ACE has now published the *1954-1989 Guide*, which contains courses and occupations with exhibit dates of 1/54 through 12/89. The *1996 Guide* contains courses and occupations with exhibit dates of 1/90 and later.

Please retain the *1954-89 Guide* as a permanent reference and use it with the *1996 Guide*.

2. Which *Guide* do I use if the course my student took spans the years 1989-1990?

If the student began the course anytime in 1989, use the *1954-1989 Guide*. If records show the student began the course 1/90 or later, use the *1996 Guide*.

3. Where do I find course and occupation exhibits dated prior to 1954?

The Military Evaluations Program began evaluating military training and experience in 1940. For credit recommendations for courses offered before 1954, send a completed *Request for Course Recommendation* form (found in the back of this volume) to ACE. The earliest occupation evaluations date back only to the 1960s and are in the *1954-1989 Guide*.

4. Which learning experiences have been evaluated for the Army?

Formal courses offered by the active Army, Army Reserve, and Army National Guard are all eligible to be evaluated. In addition, Army enlisted and warrant officer military occupational specialties (MOS's) have been evaluated. Courses and occupations with exhibit dates of 1/90 or later are in this volume.

5. An applicant at my institution has submitted a DD Form 214 with abbreviated course titles that I cannot decipher. The form does not contain enough information for me to find the courses in the *Guide*. What should I do?

Military records often provide insufficient information for civilian education officials to properly identify courses. Require students to complete the *Request for Course Recommendation* form found in the back of this volume. Applicants for credit should interpret the information on

their records and present the data in readable form. You may also use course completion certificates and other training records to supplement information on the DD Forms 214 and 295. If you need help, submit the request form to ACE. *No abbreviations please.*

The submission of a Request form does *not* initiate an ACE evaluation. Evaluations are conducted in the field using teams of subject-matter specialists and not at the request of a student or institution.

The purpose of these forms is to locate an evaluation that might have been conducted after the *Guide* publication date or to locate an exhibit you might have missed in your own search.

There is no need to submit forms for courses or occupations already in the *Guide*.

6. Why aren't all military courses in the *Guide*?

The course evaluations conducted by ACE probably represent about 60 percent of the total number of courses offered by the armed services. The remaining 40 percent cannot be evaluated. It is the responsibility of each military school to provide ACE with materials for all new and all revised courses. In general, courses evaluated and published in the *Guide* are those offered on a full-time basis. After 1981, ACE began evaluating courses that are 45 academic hours in length. Prior to that time, courses evaluated were at least two weeks duration; or, if less than two weeks in length, the courses had to include a minimum total of 60 contact hours of academic instruction. Before 1973, the minimum length requirement was three weeks or 90 contact hours. Another requirement for evaluation is that a course meet servicewide training requirements and be cited in the formal school listing for the service. This requirement generally excludes locally organized and command-level training programs, as well as courses offered on a one-time basis.

Keep in mind that the *Guide* is constantly updated. Courses evaluated after the publication date are printed in the *Handbook to the Guide to the Evaluation of Educational Experiences in the Armed Services*. If you cannot locate the exhibit in either publication, submit a completed *Request for Course Recommendation* form.

7. Are Army correspondence courses evaluated?

Almost no correspondence courses are listed in the Army volume of the *Guide*. The Army, with few exceptions, has not established proctored end-of-course examinations, one of ACE's criteria for reviewing correspondence courses. Those listed are, for the most part, high-level schools or specialized schools, such as the Army Logistics Management College. Those evaluated are listed in the Keyword Index under *Correspondence* for easy identification.

8. May I submit a *Request for Course Recommendation* form that the student has filled out with information from the *Guide*?

One purpose of the *Request for Course Recommendation* form is to obtain information about a course from the student, ideally through official records, but also from personal knowledge or memory of the course. With this firsthand information, you may find the correct course exhibit in the *Guide*. If not, send in the Request form.

ACE staff will use this information to search its extensive database and files for matching information. When students attempt to identify a course taken years ago by extracting current titles or course numbers from the *Guide*, they may in fact be identifying a similar course but not the one they actually completed. A form filled out by a student who copies information from the *Guide* cannot be used for research purposes because that information only duplicates published data. Do not ask the student to find course listings in the *Guide*. *Only accurate and verified information is to be submitted.*

Remember that it is your responsibility to verify course completion; ACE has no access to individual records and does not verify course completions.

9. Who should send in the *Request for Course Recommendation* form?

The form should be completed by the applicant and submitted by the institution official or military representative. While we do provide credit recommendations to applicants at their request, we encourage them to apply through their schools. We do not normally send a credit recommendation to a college at the request of a student applicant or a military counselor.

10. Why is so much information needed on the *Request for Course Recommendation* form?

You cannot be sure that you have identified the correct exhibit in the *Guide* unless all the information on the form matches the corresponding items in the course exhibit. The course title, course number, name and location of the service school, and length of the course shown on the form should be identical to the information in the exhibit. The date that the student started the course must fall within the exhibit dates. All items must be identical if an accurate identification is to be made.

11. What do I do when the information on the *Request for Course Recommendation* form does not exactly match the information in the course exhibit?

Send the completed form to ACE. Do not give it to the student to submit. If just one item differs from that in the exhibit you have located (for example, length), circle the item to bring it to the attention of the research staff. Send *copies* of military records only if you think they will provide additional information. If the staff cannot identify the

course and supply a credit recommendation, you may still grant credit to the applicant by conducting your own assessment of the applicant's learning.

12. What is the significance of the date that appears after each credit recommendation?

That date represents the month and year the credit recommendation was established. Each time an evaluation is conducted, a date is provided to indicate when the course or occupation was last considered for a credit equivalency so that you can judge the currency of the credit recommended. This information is particularly useful in subject areas where state of the art is important in determining the applicability of credit. You can also use the evaluation date when your institution has established a statute of limitations for acceptance of transfer credit. The date is provided for your information; do not confuse the date with exhibit dates.

13. An applicant completed a course in 1991, but the *Guide* exhibit dates are 5/92 to present. Should I grant credit based on the *Guide*?

The exhibit dates indicate the time period for which ACE has information on the course. The course may have been offered for several years prior to the exhibit start date, but since the service branch did not submit information on the course during that time period, we cannot backdate the exhibit to cover it. If you can be reasonably sure, from other information provided by the applicant (length, course content description), that the course was the same or similar to the course listed in the *Guide*, then you may want to grant credit similar to the *Guide* recommendation. You may be able to grant credit based on a comparison of the applicant's information with the descriptive information in the *Guide*. ACE encourages you to conduct your own assessment of courses for which no credit recommendation is available. Staff may be able to provide you with military formal school catalog course descriptions for periods of time outside the exhibit dates. This should help you determine whether you might apply the credit listed in the *Guide* exhibit based on your own comparison.

14. Can a servicemember receive credit for a course that has been completed after the ACE exhibit end date?

Yes, as long as the student started the course during the time span in exhibit dates, credit may be granted. For example, when a new edition of an Coast Guard correspondence course is brought on line, the Coast Guard grants a window of 26 weeks to allow the student to complete the older edition, provided the Education Services Officer has the end-of-course examination for that edition in stock. The official student record that can be obtained from the Coast Guard Institute will verify that the member completed a particular edition of the course. ACE exhibit dates show the date the new course was instituted.

QUESTIONS AND ANSWERS

15. I found the correct exhibit in my 1996 Guide, but under "Credit Recommendation" it says "Pending evaluation." What should I do?

Check the *Handbook to the Guide*. Staff members regularly conduct site evaluations. When a course or occupation is listed as "Pending evaluation," and does not appear in the *Handbook*, call to find out if a credit recommendation is available or send in the *Request for Course Recommendation* or *Request for Army Enlisted and Warrant Officer MOS Exhibits* form. The *Guide* system is constantly growing as courses and occupations are added to the data base.

16. Can you offer some tips on locating courses by title?

You can generally locate an exhibit by searching in the Keyword Index under the main words in the title. Generic terms such as *Repair*, *Technician*, and *Officer* are not keywords.

Keywords may also consist of two or three words. For example, *Electronic Warfare* and *Air Traffic Control* are keywords.

In the computer's system of alphabetizing, abbreviations and acronyms are placed at the end of a sequence. For example:

Nurse
Nursing
NBC
NCO

Numbers are arranged in the following sequence:

AN/TSQ-114
AN/TSQ-38
AN/TSQ-51
AN/TSQ-73

As you can see, 114 appears before 38. Letters appear before numbers.

17. One of my students completed a formal military course but does not have a DD Form 295 or DD Form 214. Should I grant credit for the course? How can I verify that the student actually completed the course?

The requirement that school officials use the DD 295 or DD 214 to verify successful completion of a service course is not intended to exclude those individuals who do not have access to the forms. These forms may be unavailable to Reservists, National Guard members, and civilians attending military courses. In such cases, alternative forms of certification, such as course completion certificates or other records of training, may be used to verify eligibility for credit. Increasingly, the DD 295 is available to Reservists and National Guard members through their designated education services officers.

Veterans may use *Request Pertaining to Military Records*, Standard Form 180, available from Veterans Administra-

tion offices, and reproduced in this volume, to obtain records of their military training.

18. When credit is recommended in more than one category, what should I do?

Credit is sometimes recommended in more than one category. One reason for multiple-category recommendations is that the scope of a given MOS or course reflects learning in several subject fields at different levels of complexity.

A thorough reading of the exhibit will help you determine which category to apply. Compare learning outcomes achieved or course objectives and content with those of your own institution.

Credit recommended in a given subject field that is applied to two or more categories should not be added. Determine how the credits apply to the student's program of study at your institution.

For example:

In the vocational certificate category, 15 semester hours in electricity or electronics. In the lower-division baccalaureate/associate degree category, 10 semester hours in electricity or electronics. In the upper-division baccalaureate category, 5 semester hours in electricity or electronics (6/75).

Compare the exhibit description with the outcomes of electricity or electronics or related courses and programs of study at your institution. Award credit based on comparison of these outcomes.

This example occurs most often in older exhibits found in the *1954-1989 Guide*.

Evaluators now place the credit in a given subject area in the highest, most appropriate category. If credit is placed in more than one category, specific subjects will be cited. Some military courses may reflect competencies at the lower division, such as personnel supervision, as well as more advanced competencies at the upper division, such as human resource management. Thus it would be appropriate to grant credit at both levels.

As a general rule, you should read the course or the MOS description and skill level descriptions, and then award credit as it best applies to the student's program of study, as determined through academic counseling.

19. Should a two-year college use only the lower-division credit recommendations? And should a four-year college use only upper-division credit recommendations?

Not necessarily. Evaluators place a course recommendation in the highest appropriate category. If your institution teaches a given course at a different level, you are encouraged to grant credit at that level. Depending on the recommendation, the programs of study at the insti-

tution, and the objectives of the student, all types of institutions can use any or all of the four credit categories. See Appendix A.

20. Do I have to grant credit *exactly* as it appears in the recommendation?

The use of ACE recommendations is the prerogative of education officials and employers. The recommendations are provided to assist you in assessing the applicability of military learning experiences to an educational program or occupation. You may modify the recommendations in accordance with your institution's policies and practices.

Credit may be applied to a student's program in various ways: (1) applied to the major to replace a required course, (2) applied as an optional course within the major, (3) applied as a general elective, (4) applied to meet basic degree requirements, or (5) applied to waive a prerequisite. Credit granted by a postsecondary institution will depend on institutional policies and degree requirements.

The learning of some service personnel may exceed the skills, competencies, and knowledge evaluated for a specific course or occupation. In these cases, you may wish to conduct further assessment.

For additional help in this area, see the Model Policy in Volume 3.

21. May I conduct my own assessment of an applicant's learning?

In a sense, you are *always* conducting your own assessment, even when you use the recommendations in this book. The *Guide* is one reference available to assess what an applicant has learned and how that learning can be applied to a specific program of study at your institution. When you cannot find a recommendation in the *Guide* or the *Handbook*, or cannot obtain one from ACE, we encourage you to use other means to assess what the person has learned.

There is a wide variety of assessment techniques that you can use: written examinations, oral examinations, faculty committee assessment, evaluation of materials supplied by the applicant, personal interviews, performance tests, and standardized examinations such as CLEP. A combination of several techniques will usually result in a reliable assessment of the person's learning.

Learn more about assessment techniques through the publications of the Council for Adult and Experiential Learning (CAEL). Publications may be purchased from CAEL, 223 W. Jackson Blvd., Suite 510, Chicago, IL 60606 (312-922-5909).

The ACE *Guide* Series now comprises this *Guide*, the *1954-1989 Guide*, and companion volumes, *The National Guide to Educational Credit for Training Programs* (which lists recommendations for courses offered by business and industry, government agencies, professional and

voluntary associations, and labor unions) and the *Guide to Educational Credit by Examination* (which provides descriptions and credit recommendations for nationally recognized testing programs). The *National Guide* is available from Oryx Press, (800) 279-6799. The *Guide to Educational Credit by Examination* may be purchased from the American Council on Education (202-939-9434).

22. What is the *Handbook to the Guide to the Evaluation of Educational Experiences in the Armed Services*?

The *Handbook to the Guide* provides credit recommendations for courses and occupations evaluated since the latest *Guide* was printed. The *Handbook* also includes information on examination evaluations, ACE, forms and instruction, and helpful hints. The *Handbook* is distributed to military education offices and civilian institutions between publications of the *Guides*.

23. We have received a transcript from a military service school listing semester credits and carrying the statement that the school is accredited by one of the six regional accrediting associations. How do we handle this?

At this time, the following military schools are accredited to grant degrees: Community College of the Air Force, Maxwell Air Force Base, AL, accredited at the two-year community college level; Army Command and General Staff College at Fort Leavenworth, KS, accredited to grant an MA; Air Force Institute of Technology at Wright-Patterson Air Force Base, OH, accredited through the doctoral level; Joint Military Intelligence College (formerly Defense Intelligence College), Washington, DC, accredited to grant an MA; Naval Postgraduate School, Monterey, CA, accredited through the doctoral level; Naval War College, Newport, RI, accredited to grant an MA; Uniformed Services University of the Health Sciences School of Medicine, Bethesda, MD, accredited through the doctoral level; the National Defense University's National War College, accredited to grant an MA, and the Industrial College of the Armed Forces, accredited to grant an MA; and the service academies. Although some other military schools are accredited, these are the only ones with degree-granting status at publication time.

24. I am an employer. How will the *Guide* be useful to me?

You may find the exhibits helpful in identifying the skills and knowledge of veterans when hiring or placing them in jobs. The recommendations and descriptions enable you to compare a veteran's training and experience with the qualifications and requirements for the particular job. The recommendations relate learning to postsecondary courses and curricula.

A new document, *DA Form 2586, Verification of Military Experience and Training*, has been designed specifically

for your use. Although not appropriate for the granting of credit, this form is a comprehensive listing of military education and training and is ideal for an employer.

25. Some course exhibits are end-dated, yet I have students who took them after that date. Why would ACE end-date a course that is still offered?

When a school has not provided information on a course in ten years, ACE will end-date the exhibit. Other course exhibits may be end-dated when ACE receives military documentation showing a course has different identifiers (number, title, length). When updated information is received, courses are scheduled for reevaluation. A modified course may appear as a new exhibit or as a new version of an old exhibit.

26. Why are most Defense Language Institute (DLI) courses end-dated in 1990? What do I do for foreign language courses taken after that time?

Credit recommendations are now based on successful completion of the Defense Language Proficiency Test (DLPT) end-of-course examination.

ACE's Credit by Examination Program began evaluating DLI's end-of-course examinations in October 1990. Credit recommendations are now based on successful completion of the DLPT III and IV series. These examinations may be taken by servicemembers who complete the DLI courses, as well as by servicemembers who must demonstrate on-going language proficiency without having taken formal training. Evaluation of the tests is a way to ensure that both groups receive appropriate recognition. See the Defense Language Proficiency Test charts in volume 3 for the credit recommendations.

An official DLI transcript listing the test results is available to the examinee from Commandant, Defense Language Institute, Foreign Language Center, ATTN: ATFL-DAA-AR, The Presidio of Monterey, Monterey, CA 93944-5006. Test scores are available by writing to DLI/FLC, The Presidio of Monterey, Monterey, CA 93944-5006, ATT: ATFL-EST-M (DLPT Score Reports).

Additional information on these examinations may be obtained from ACE's *Guide to Educational Credit by Examination*, 4th edition.

27. What are USAFI and DANTES? Should I grant credit for the courses and tests listed on an applicant's USAFI or DANTES military test reports?

USAFI was the United States Armed Forces Institute, which offered an extensive educational program to active-duty personnel. USAFI correspondence, seminar, self-study courses, end-of-course tests, and Subject Standardized Tests (SSTs) were made available to servicemembers worldwide until 1974, when USAFI was disestablished. Credit recommendations for USAFI courses and examinations are listed in the *Handbook to the Guide*.

The Defense Activity for Non-Traditional Education Support (DANTES) was established in 1974, and that agency continues the development and administration of Subject Standardized Tests (SSTs) and other educational services. ACE continues to recommend credit for USAFI offerings and DANTES SSTs. Credit recommendations for DANTES SSTs are in the *Handbook to the Guide*. Detailed descriptions are in the *Guide to Educational Credit by Examination*, which is available from the ACE Credit by Examination Program.

In verifying completion of USAFI or DANTES courses or tests, the military test report is not to be considered official. That report is given to all servicemembers who have taken a course or test. To obtain official USAFI or DANTES transcripts, refer to the addresses provided in Appendix A, under "Other Resources."

28. I have looked up several courses and MOS's for one applicant. It appears that a lot of the recommended credit is in the same subject area. How can I avoid granting duplicate credit to this person?

You may grant credit for any combination of learning experiences. You must be alert to the possibility of overlapping credit recommendations. When the student is applying for credit for more than one learning experience, the recommendations might cover some of the same learning. In such cases, awarding a simple total of the recommended credit could result in the award of more credit than the learning merits.

To determine how much credit should be awarded without duplication, use the following steps:

1. Using official military records, locate the appropriate course and MOS exhibits in the *Guide*.
2. Read and compare all the descriptions, and, on the basis of the person's program of study, identify the appropriate recommendations in each exhibit.
3. Read and compare all the recommendations. It may be necessary to obtain additional information from the individual through interview or further assessment.
4. Make decisions on how much credit might be awarded without duplication. Credit should be awarded as appropriate to the educational goals of the individual and policies of the institution.

If you cannot determine whether duplication exists, contact ACE.

29. An Army student I'm counseling has taken an Air Force course not in the *Guide*. What should I do?

Any servicemembers who started an Air Force course prior to March 31, 1996 can obtain a CCAF transcript. Servicemembers who take courses after this date should contact CCAF for information on transcribing availability. The transcript may be used to request transfer of credit to another institution or to otherwise document college

credit. CCAF does not award credit for all Air Force courses, but only those regularly attended by Air Force enlisted personnel and taught by CCAF-affiliated schools.

To obtain a CCAF transcript, send a completed AF Form 2099 or a brief letter requesting transcript service to CCAF/RRRA, Simler Hall, Suite 128, 130 West Maxwell Boulevard, Maxwell Air Force Base, AL 36112-6613. A certificate of training must accompany the request. DD Form 214 is not acceptable. Specify the type of transcript (personal or official) and the address to which the transcript is to be mailed. Provide full name and social security number, and ensure that the person whose transcript is requested signs the request form. The transcripts are free. Official transcripts will be mailed only to institutions.

30. I've found exhibits for most enlisted occupations, but not for the Air Force or Marine Corps. How come?

Air Force enlisted personnel should write to the Community College of the Air Force (CCAF) to obtain a transcript, which will include credit for the Air Force Specialty Codes (AFSCs) (occupations) held.

Selected Marine Corps MOS recommendations are included in the *Guide*. At present, evaluations have been conducted for MOS's in the aircraft maintenance and avionics occupational fields.

31. What are primary, secondary, and duty MOS's?

All soldiers receive a primary MOS in which they normally work and are evaluated.

Some soldiers receive a secondary MOS which is generally related to their primary MOS. They are evaluated every other year in the secondary MOS.

A soldier works in a duty MOS, which in most cases is the same as the primary MOS. In instances in which the duty MOS is different from the primary MOS, soldiers are evaluated by their supervisor in their duty MOS. Credit may be awarded in either the primary or duty MOS or both. The soldier must maintain proficiency in the primary MOS as well as the duty MOS.

Ordinarily, the primary, secondary, and duty MOS's are in the same or related career field. If this is the case, there is apt to be some duplication in the credit recommendations.

32. Can MOS credit be awarded to Army Reservists and National Guard members as well as active-duty soldiers?

Credit for MOS's may be granted to reserve forces personnel (Army National Guard members and Reservists). Between the dates October 1973 and December 1976, MOS test scores of 70 or above may be used in determining MOS proficiency. After December 1976, however, institutions should be aware that documenting MOS proficiency for them is different from that for active-duty soldiers.

Between January 1977 and October 1991, the SQT was taken annually by active-duty soldiers, and every two years by members of the reserve forces. For active-duty personnel, the SQT was considered a reliable instrument for making academic credit award decisions from August 1983 to October 1991. However, Reserve and National Guard commanders generally narrowed down the tasks for each soldier. They selected the tasks that were necessary for a soldier to maintain proficiency in the skills required to support the mission of the particular unit. Thus, scores were based on these selected items and had a meaning different from the scores of active-duty personnel. National Guard members and Reservists received EERs on an annual basis. Therefore, EERs, not SQTs, should be used to verify MOS proficiency for reserve forces personnel. ACE suggests that institutions check for a minimum of two EERs in the same MOS before awarding credit.

33. I've checked both this *Guide* and the 1954-1989 *Guide* and my student held an MOS before the start date of the MOS exhibit. Do I still use the *Guide* to grant credit to this person?

Probably not. You need to do some additional investigating to help you decide whether to accept or modify the recommendation. Since MOS duties and skill level structures sometimes change, you need to determine if the earlier MOS is the same as the MOS described in this *Guide* or the 1954-1989 *Guide*. You may be able to confirm the similarity by comparing the *Guide* MOS description to the description of the MOS when your student held it. The start date established by ACE is based on how far back we can verify the occupation was the same as it was when our team evaluated it. There are three steps you will need to follow in deciding whether or not to award credit:

1. Obtain a description of the MOS as it existed when the person held it. If the person held it since October 1, 1973, write to the Advisory Service for a copy of the Army description (be sure to tell us when the person held the MOS). If the person held it before October 1973, a copy of the description may be obtained by writing to the Soldier Support Center, National Capital Region, ATT: ATZI-NCR-MO, 200 Stovall Street, Alexandria, VA 22332. Be sure to include the full title, dates held, and MOS designator. They will send a copy of the description if it is available. Use the description to identify the learning outcomes represented by the MOS.
2. Determine whether the individual demonstrated proficiency in the MOS. If the person held the MOS since October 1, 1973, follow the procedures outlined in Steps 1 and 2 in *How to Find and Use MOS Exhibits* to determine MOS proficiency. If the person held the MOS before October 1973, conduct your own assessment to verify that the person achieved the learning

outcomes represented by the MOS.

3. Determine how much credit may be granted to the person. A careful comparison of the description in the MOS exhibit and the one obtained in Step 1, above, may reveal whether the MOS was substantively different. If it was not, the credit recommendation in the exhibit may be used. If specific differences are identified, then the recommended credits may need to be modified accordingly.

34. Is a four-digit number an acceptable warrant officer MOS designation?

In some cases, yes. The four-digit number is the warrant officer MOS designation used before the present warrant officer MOS classification system was adopted in June 1961. For example, the MOS designation for Bandmaster was 5241, then became 031A, and is now 420C. When the start date for a warrant officer MOS exhibit is earlier than 6/61, the four-digit MOS designation is provided in the MOS exhibit because some warrant officer records may show the old number. This will occur only in the *1954-1989 Guide*.

35. Should I award credit to a warrant officer for his or her enlisted MOS's?

Yes, you may award credit for any combination of learning experiences.

36. The Course Number Index in the *Guide* contains Army course numbers that are eight digits long, but service records usually provide only a five-digit course number. How can I identify a course with a five-digit number?

The Army course numbering system consists of the three-digit DOD Enlisted Occupation Code followed by the Army five-digit Military Occupational Specialty (MOS) code or two or three digit officer identifier or special or additional skill identifier. Many service records, however, provide only the MOS code that relates to an Army course. To identify the correct course exhibit with only an MOS code, refer to the Conversion of Army Enlisted MOS's to DOD Enlisted Occupational Codes table at the back of this volume.

To use this table, identify the first three digits of the five-digit MOS code (e.g., the first three digits of MOS 39G10 are 39G). Look up the three-digit code (39G) in the table and find the corresponding DOD code (150). You now have the complete Army course number (150-39G10) and are able to use the *Course Number Index*.

37. Why is the number of credits for the occupation greater than the number of the course that leads to it?

It is rare for the subject matter covered in a course to perfectly coincide with the learning represented by occupational proficiency. In most cases, there is quite a

difference in scope both in the subject matter and the depth and breadth of the learning.

Usually, the scope of a course is narrower than that of the occupation. Most Army courses are designed to prepare the soldier to be able to function on the job or to take on additional tasks. As such, the courses normally provide entry-level occupational skills and competencies. However, successful performance in an MOS is predicated on the additional factor of work experience and/or extensive self-instruction.

38. How can the MOS recommendations assist me in conducting an individual assessment of a student?

The process of conducting an individual assessment to verify MOS proficiency is not very different from making a portfolio assessment of a student's experiences. The *Guide* can simplify the steps in the assessment process.

When a student submits a portfolio, the institution official must (1) determine the thoroughness and preciseness of the documentation of the experience, (2) identify the learning outcomes that have been achieved, (3) judge the equivalence of the learning outcomes to those achieved through the institution's programs of study or courses, and (4) translate the learning outcomes into credit. In considering whether to grant credit for an MOS, keep in mind that ACE evaluation teams have already accomplished three of these steps. They have (1) determined the expected learning outcomes of that MOS, (2) judged the compatibility of the MOS training with postsecondary curricula, and (3) translated the learning outcomes into credit recommendations for specific postsecondary courses.

In order to make a recommendation, ACE evaluators first identify the skills, competencies, and knowledge associated with a given MOS. They use various resources, including the official Army MOS regulation, which describes the duties and qualifications for each MOS skill level; technical manuals, soldier's manuals, and other publications used by soldiers in the day-to-day performance of their duties and to prepare for their evaluation tests; and study guides that outline the proficiency requirements for each MOS skill level. During site visits to Army installations, evaluators interview soldiers and observe them on the job.

Thus, ACE provides a sound initial assessment of MOS's in terms of their equivalency to postsecondary learning. The institution must verify whether the individual actually possesses the skills and knowledge described in the *Guide* entry before awarding the recommended credit. Thus, although the ACE MOS credit recommendations are valid in a general way, they cannot be applied routinely to every individual seeking MOS-related credit. When you can confirm that the individual has attained some or all of the skills and knowledge represented by the MOS, the ACE recommendation can be utilized or appro-

priately modified.

39. I have heard that Army servicemembers may obtain a transcript containing his military training and educational experiences while in the Army. Is this true?

Yes. An Army/ACE Registry Transcript System (AARTS) is available to active-duty enlisted personnel, and veterans with basic active service dates falling on or after October 1, 1981, and to Army National Guard enlisted personnel and veterans on the active rolls as of January 1, 1993, with pay entry basic dates/basic active service dates falling on or after October 1, 1981. The transcript documents successfully completed courses, Military Occupational Specialties (MOS's) held, proficiency test scores, and the ACE credit recommendations.

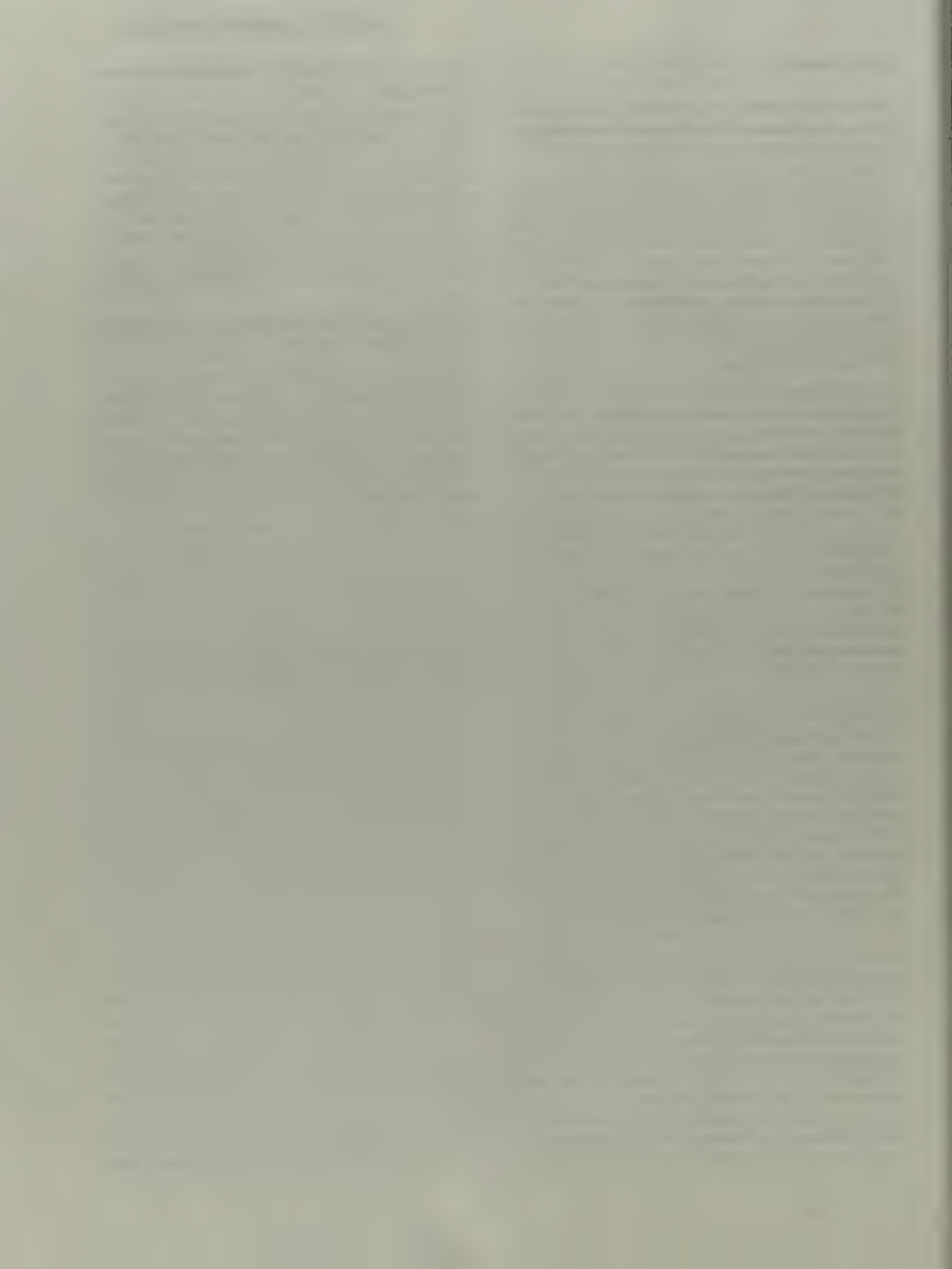
Servicemembers can obtain a transcript request form (DA Form 5454-R) from the *Handbook*, the *Guide*, their local education center office, or the AARTS Operations Center, 415 McPherson Avenue. Ft. Leavenworth, KS 66027-1373. See Appendix B for a sample request form that can be duplicated. There is no charge for the transcript.

40. Why aren't all courses taken by a soldier or a veteran on the AARTS transcript?

Some soldiers may report omissions in the listing of military course completions on their records, especially for the years 1981-1984. Omissions occurred because computerized course completion data were not always available to AARTS from service schools. Soldiers seeking credit for course completions not documented on the transcript should provide alternative proof of completion, such as DD Form 295 for active-duty personnel and DD Form 214 for veterans. Course completion certificates may also be used.

41. What distinguishes an official AARTS transcript from an unofficial issuance?

An official AARTS transcript has the phrase "institutional copy" printed at the top of each page of the transcript. Transcripts going to soldiers, veterans, education center counselors or employers contain the phrase "personal copy" printed at the top of each page of the transcript. Require the soldier to request an official transcript to be sent to your institution.



Course Exhibits

AR

AR-0101-0002

DEPARTMENT OF DEFENSE PEST MANAGEMENT

Course Number: 6H-F12/322-F12.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 3 weeks (131 hours).

Exhibit Dates: 7/93–Present.

Learning Outcomes: Upon completion of the course, the student will be able to apply local, state, and federal laws to pest management activities; label and apply pesticides; evaluate and maintain various vegetation and turf areas according to accepted pest control principles and techniques; and identify and control arthropod and vertebrate pests.

Instruction: Lecture and practical exercises in pest and vegetation management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, Core 3 semester hours in pest management. Phase 1, 1 semester hour in agriculture pest management. Phase 2, 2 semester hours arthropod and vertebrate pest management (10/95).

AR-0102-0003

INSTALLATION VETERINARY SERVICES

Course Number: 321-F3; 6G-F3/321-F4; 6G-F3/321-F3.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (79-84 hours).

Exhibit Dates: 1/90–10/93.

Learning Outcomes: After 10/93 see AR-0102-0008. To provide selected officers and enlisted personnel with training to supervise veterinary activities.

Instruction: Conferences, demonstrations, discussions and practical exercises in administration, meat and seafood technology and quality assurance, veterinary preventive medicine and surveillance inspections.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in administration, 1 in food technology and 1 in food inspection procedures (1/95).

Related Occupations: 91R.

AR-0102-0005

ADVANCED ANIMAL CARE SPECIALIST

Course Number: 321-91T30.

Location: Walter Reed Institute of Research, Washington, DC.

Length: 10 weeks (331-348 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide veterinary animal care specialists training in administration, advanced medical skills, and preventive medicine aspects of community health. Emphasis will be given to leadership situations involving

practical problems of administrative control in animal disease prevention and control facilities.

Instruction: Lectures, practical exercises, and examinations in administration and public relations, pathogenesis and management of disease, public health and preventive medicine, emergency medicine, surgery and anesthesia, diagnostic procedures, parasitology, laboratory animals in research, and equine medicine and husbandry.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in administration, 1 in preventive medicine (6/88); in the upper-division baccalaureate category, 6 semester hours in veterinary science/technology or 6 in animal science/technology or 6 in animal laboratory technology (6/88).

AR-0102-0007

ANIMAL CARE SPECIALIST

Course Number: 321-91T10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Walter Reed Institute of Research, Washington, DC.

Length: 9 weeks (331 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the specialist is expected to gain a knowledge of the basic principles and techniques of animal care, disease prevention, recognition of disease states, diagnostic laboratory procedures, and treatment methods to enable them to assist a veterinary medical officer.

Instruction: Course consists of lectures, laboratory exercises, and demonstrations covering the basic services related to animal structure and function, pathology, elementary pharmacology, animal handling and care and diagnostic laboratory procedures. Clinical components include radiological techniques, anesthesiology and surgical procedures and public health education.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 12 semester hours veterinary science/technician, animal sciences, or laboratory animal science (8/93).

AR-0102-0008

INSTALLATION VETERINARY SERVICES

Course Number: GG-F3/321-F3.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (84 hours).

Exhibit Dates: 11/93–Present.

Learning Outcomes: Before 11/93 see AR-0102-0003. Upon completion of the course, the student will be expected to identify the mission, organization, force structure policies, issues and proposed changes which effect the installation level veterinary services; and discuss current concepts that seek to standardize the perfor-

mance of food inspection task e.g., inspection, reporting and management.

Instruction: This course will present such topics as food inspection, and reporting and management exercises using the conference and practical exercise format. Classroom instruction will be reinforced and evaluated through regular examinations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in food hygiene and quality assurance (10/95).

AR-0104-0001

VETERINARY FOOD INSPECTION SPECIALIST

ADVANCED

Course Number: 321-91R20.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 9 weeks (344-348 hours).

Exhibit Dates: 1/90–9/91.

Objectives: After 9/91 see AR-0104-0012. To provide food inspection specialists with a working knowledge of advanced procedures and techniques of food hygiene, safety and quality assurance inspections in order to supervise subordinate personnel.

Instruction: Conferences, practical exercises, and demonstrations of the procedures and techniques of food inspection including principles of sanitation, facility inspections, and quality assurance techniques for produce, dairy, meat, poultry, and seafood products.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in food sanitation, 6 in food service and product inspection and 1 in administration (8/88).

Related Occupations: 91R.

AR-0104-0002

VETERINARY FOOD INSPECTION SPECIALIST

(Veterinary Specialist Basic)

Course Number: 321-91R10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 8 weeks (302 hours).

Exhibit Dates: 1/90–3/94.

Objectives: After 4/94 see AR-0104-0013. To provide food handlers with the necessary skills to perform food hygiene, safety and basic quality assurance inspection techniques under supervision.

Instruction: Conferences, demonstrations and practical exercises in administration, food technology and inspection, and veterinary preventive medicine so that when given applicable documents, inspection equipment and raw materials for meat, dairy products, poultry and waterfood, students perform appropriate component, process or end-item inspection; conduct surveillance inspections for a variety of fresh fruits and vegetables; perform product whole-

someness inspection; and detect unsanitary conditions in food handling facilities.

Credit Recommendation: In the lower division baccalaureate/associate degree category, 3 semester hours in administration, 4 in meat and waterfood technology, 3 in dairy and poultry science, 3 in food inspection techniques, and 1 in veterinary preventive medicine (3/87).

Related Occupations: 91R.

AR-0104-0006

HOSPITAL FOOD SERVICE SPECIALIST ADVANCED

Course Number: 800-94F30.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 7 weeks (273-284 hours).

Exhibit Dates: 1/90-8/91.

Objectives: To provide training to selected personnel to apply administrative practices, nutrition and clerical dietetics principles, and food production and supply techniques to the management of patient food service. Individuals learn to perform administrative duties, provide nutritional care, and carry out financial management and supply tasks in the operation of a hospital food service operation.

Instruction: Conferences, practical exercises, and examinations in nutrition care and clinical dietetics principles, personnel management, administration and food production and supply management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in nutritional care, 3 semester hours in food production management, 1 semester hour in personnel management, 1 in administration (8/88).

Related Occupations: 94F.

AR-0104-0010

VETERINARY SERVICES TECHNICIAN (BASIC)

Course Number: 6G-640A (WO).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 3 weeks (98 hours).

Exhibit Dates: 1/90-3/95.

Learning Outcomes: After 4/95 see AR-0104-0014. Upon completion of the course, the student will be able to provide at the organizational level food inspection services, including coordination and completion of applicable reports and records; assistance to public health officers and veterinarians in preventing and controlling zoonotic and food borne diseases; and inspection of food in the various categories in accordance to applicable contractual requirements. Emphasis is placed on leadership problems.

Instruction: Prerequisite courses required. Course consists of lectures, practicum, and seminars in veterinary science food technology, public health, preventive medicine, and health care administration.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in meat and dairy hygiene and 2 in community health and hygiene (3/90).

Related Occupations: 640A.

AR-0104-0011

VETERINARY FOOD INSPECTION SPECIALIST (BASIC)
(RESERVE COMPONENT) PHASE 2

Course Number: 321-91R10-RC.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (69-90 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, under the direction of a veterinarian medical officer, the specialist is able to inspect food in several categories, including red meats, poultry and eggs, waterfood, dairy products, fresh fruits, and vegetables. Acquired skills enable the specialist to perform these inspections from the standpoint of food hygiene, safety, and quality assurance.

Instruction: Prerequisite courses required. This course consist of 29 hours conference, 12 hours demonstration, and 49 hours practicum. Topics covered include contracts and standards interpretation, deteriorative and adulterative changes in foods of various categories, inspection procedures for red meat, waterfoods, poultry and eggs, and dairy products. Sampling techniques for bulk foods, inspection methods for meat by-products and methods for decontamination of foods are presented. Facility inspection training is not included in this program.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in food service (4/93).

AR-0104-0012

ARMY MEDICAL DEPARTMENT (AMEDD) BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 6-8-C40 (91T).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 14 weeks (570 hours).

Exhibit Dates: 10/91-Present.

Learning Outcomes: Before 10/91 see AR-0104-0001. Upon completion of the course, the student will be able to supervise animal care, including inspection, animal disease prevention, and sanitary inspection of food establishments.

Instruction: Course covers military leadership, personnel and physical resources management, and food inspection. Methodology includes lectures, discussions, and practical applications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (8/93); in the upper-division baccalaureate category, 2 semester hours in military science (8/93).

Related Occupations: 91T.

AR-0104-0013

VETERINARY FOOD INSPECTION SPECIALIST BASIC

Course Number: 321-91R10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 8 weeks (302 hours).

Exhibit Dates: 4/94-Present.

Learning Outcomes: Before 3/94 see AR-0104-0002. Upon completion of the course, the student will be expected to demonstrate the skills and techniques necessary to perform food hygiene inspections of various food categories; demonstrate skills necessary to perform food safety inspections for the various food categories; demonstrate skills necessary to perform food quality assurance inspections for the various food categories; and discuss the concept of

food sampling and preparation for submittal to the laboratory.

Instruction: Conferences, demonstrations and practical exercises in administration, food technology and inspection, and veterinary preventive medicine so that when given applicable documents, inspection equipment and raw materials for meat, dairy products, poultry and water food, students perform appropriate component, process or end item inspection; conduct surveillance inspections for a variety of fresh fruits and vegetables; perform product wholesomeness inspection; and detect unsanitary conditions in food handling facilities. Student instruction is reinforced through evaluative testing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 10 semester hours in food inspection/safety (10/95).

Related Occupations: 91R.

AR-0104-0014

VETERINARY SERVICES TECHNICIAN (BASIC)

Course Number: 6G-640A (WO).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 3 weeks (117 hours).

Exhibit Dates: 5/95-Present.

Learning Outcomes: Before 5/95 see AR-0104-0010. Upon completion of the course, the student will be expected to assist the veterinarian in preventing and controlling zoonotic and food borne diseases; apply administrative skills to documents, reports, and forms that are applicable to food inspection situations; and perform duties, as directed, relevant to the mission of the Army Veterinary services.

Instruction: This course will employ the conference type of instruction for topics covering food hygiene, food technology, and health care administration. Animal medicine and combat services support topics are formatted for instruction using demonstrations, seminars, and practical exercises. Reinforcement of instruction is one of the objectives of regular examinations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in food hygiene and technology and 2 in animal medicine and care (10/95).

AR-0202-0001

1. GRAPHICS DOCUMENTATION SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)
25Q30

2. GRAPHICS DOCUMENTATION SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: Version 1: G3AZR23171 000; G3AZR23171 000 (25Q30). Version 2: G3AZR23171 000; G3AZR23171 000 (25Q30).

Location: Technical Training Center, Lowry AFB, CO.

Length: Version 1: 7-8 weeks (290 hours). Version 2: 6-7 weeks (216-257 hours).

Exhibit Dates: Version 1: 10/91-Present. Version 2: 1/90-9/91.

Learning Outcomes: Version 1: Upon completion of the course the student will be capable of managing a graphics documentation team as well as performing individual functions within the organization. Students can plan, supervise, and direct the operation of the graphics docu-

mentation team plus the maintenance of the equipment. *Version 2:* Upon completion of the course, the student will be able to manage a graphics documentation team in providing visual information support services including Diazo overhead transparencies and computer graphics for presentation and publication purposes. Student will plan, supervise, and direct the operation of the graphics documentation team and the maintenance of the equipment.

Instruction: *Version 1:* Lectures, demonstrations, and practical exercises cover topics that include routine visual information documentation, maintaining television equipment, computer applications, photographic facility management, and television production management. Additionally, students receive training in graphics, black and white/color theory, fundamentals of lettering, drawing, view-graph preparation, map overlays, and computer generated graphics. *Version 2:* Lectures and practical exercises reinforced by application in a field operational test where the unit must plan and execute a move to support a military operation requiring visual information support for briefings, documentation, and training. Course also includes a common core of leadership subjects.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in graphics management (7/94). *Version 2:* In the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (5/90); in the upper-division baccalaureate category, 3 semester hours in graphics management (5/90).

Related Occupations: 25Q.

AR-0202-0002

STILL DOCUMENTATION SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)
(25S30)

Course Number: G3AZR23172 002.

Location: Technical Training Center, Lowry AFB, CO.

Length: 7-8 weeks (290 hours).

Exhibit Dates: 10/91-Present.

Learning Outcomes: Upon completion of the course the student will be able to manage visual information facilities and organizations to include training, planning, supervising, and directing visual information documentation operations and support for unit activities both in garrison and the field.

Instruction: Lectures, demonstrations, and practical exercises provide knowledge and skills for the administration, supervision, and operation of a visual documentation team. Topics include management principles and technical information necessary to direct, plan, manage, and review team operations, including instruction on computer graphics, video systems, still photography production, and procedures for historical documentation and unit operations support. Emphasis is on still photography operations and leadership responsibilities.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in audio/visual management (7/94).

Related Occupations: 25S.

AR-0301-0003

COST ESTIMATING FOR ENGINEERS

Course Number: *Version 1:* ALMC-CC. *Version 2:* ALMC-CC.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: *Version 1:* 2 weeks (73 hours). *Version 2:* 2 weeks (73 hours).

Exhibit Dates: *Version 1:* 10/92-Present. *Version 2:* 8/90-9/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to describe the preferred methods of cost estimating; describe the variety of data sources and data adjustments using various techniques including parametric statistics, uncertainty and validity tests, economic analyses, and regression models; illustrate the techniques used in developing and analyzing life cycle cost estimates; and illustrate the proper use of cost estimating methods and techniques. *Version 2:* Upon completion of the course, the student will be able to describe the preferred methods of cost estimating; describe the variety of data sources and data adjustments; illustrate the techniques used in developing and analyzing life cycle cost estimates; and illustrate the proper use of cost estimating methods and techniques.

Instruction: *Version 1:* Lectures, practical exercises, and group workshop methods are used in the qualitative and quantitative techniques of cost estimating and analysis, and methods of developing cost estimates and evaluating uncertainties. *Version 2:* Lectures, practical exercises, and group workshop methods are used in the qualitative and quantitative techniques of cost estimating and analysis, and methods of developing cost estimates and evaluating uncertainties.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in cost analysis (8/95). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in cost analysis (6/91).

AR-0301-0004

COST ESTIMATING FOR ENGINEERS BY
CORRESPONDENCE

Course Number: ALMC-CC.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: Maximum, 52 weeks.

Exhibit Dates: 8/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to describe the preferred methods of cost estimating; describe the variety of data sources and data adjustments; illustrate the techniques used in developing and analyzing life cycle cost estimates; and illustrate the proper use of cost estimating methods and techniques.

Instruction: This is a correspondence, self-study program covering methods used in the qualitative and quantitative techniques of cost estimating and analysis, and methods of developing cost estimates and evaluating uncertainties.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in cost analysis (6/91).

AR-0306-0001

READING IMPROVEMENT

Course Number: 1-19-XQ-100.

Location: Military Police School, Ft. McClellan, AL.

Length: Self-paced, 1-2 weeks (50 hours).

Exhibit Dates: 1/90-Present.

Objectives: To improve the student's ability to read more effectively by increasing both speed and comprehension rates.

Instruction: This is primarily a laboratory course using the Science Research Associates (SRA) conceptual approach to reading improvement through individualized programmed instruction, the student demonstrates progressive mastery of the multilevel power builder and rate builder reading programs.

Credit Recommendation: In the vocational certificate category, credit in reading improvement on the basis of institutional evaluation (3/82).

AR-0326-0003

ASSOCIATE LOGISTICS EXECUTIVE DEVELOPMENT

Course Number: 8A-F19.

Location: Army Logistics Management Center, Ft. Lee, VA.

Length: 10 weeks.

Exhibit Dates: 1/90-Present.

Objectives: To teach officers logistics management.

Instruction: Lectures and practical exercises in logistics management, including management systems and development; inventory management; personnel management; financial management; statistical methods; maintenance management; logistical organization of the military; procurement; contract law, policies, and definitions; contract development and administration; depot operations management; containerization; distribution management; and maintenance economics. Lecture conferences, cases, practical exercises, guest speakers, and field trips covering management principles, financial management, the acquisition process, assets management, economic and statistical principles, and logistics management. Note: Course is offered two weeks a year for five years.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in general management, 4 in economic principles and decision making, and 6 in logistics management (3/86); in the graduate degree category, 3 semester hours in general management (3/86).

AR-0326-0008

ARMY DEPOT OPERATIONS MANAGEMENT

Course Number: ALM-42-0228; 8B-F10.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: 4 weeks (156 hours).

Exhibit Dates: 1/90-Present.

Objectives: To teach officers and civilian personnel depot directorate-level management.

Instruction: Instructional methods include lectures, case discussions, computer-assisted simulations, an oral project, field trips, written analysis, guided discussion, seminars, workshops, and presentations by guest speakers. Topics include the management of major depot functions of receipt, storage, care, preservation, distribution, and control of materiel.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in management of warehousing operations (5/81).

Related Occupations: 726A; 761A.

AR-0326-0010**INTERMEDIATE PRE-AWARD CONTRACTING**

(Management of Defense Acquisition Contracts Advanced)

(Management of Acquisition Contracts Advanced)

Course Number: 8D112 CON 211**Location:** Army Logistics Management Center, Ft. Lee, VA; Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA**Length:** 1-2 weeks (102 hours)**Exhibit Dates:** 1990-5/94**Objectives:** After 5/94 see AR-0326-0057. To train procurement management officers in advanced procurement management**Instruction:** Lectures and practical exercises in procurement management, including procurement planning, funding, technical requirement impact; small business, labor surplus and disaster area relief operations; procurement by formal advertising and negotiation; contract types and purposes; cost and price analysis; contract administration; terminations and remedies; patents and data; and procurement trends. Lectures and practical exercises in planning for contract management including acquisition planning, socioeconomic programs and cost/price analysis; contract management including bidding, negotiations, modifications, and termination.**Credit Recommendation:** In the upper-division baccalaureate category, 2 semester hours in acquisition management (10/88); in the graduate degree category, 1 semester hour in contract management (10/88).**AR-0326-0012****DECISION RISK ANALYSIS****Course Number:** ALMC-DA.**Location:** Army Logistics Management College, Onsite at various locations; Army Logistics Management Center, Ft. Lee, VA; Army Logistics Management College, Ft. Lee, VA.**Length:** 2 weeks (73-78 hours)**Exhibit Dates:** 1/90-Present.**Objectives:** To provide a basic understanding of the concepts and techniques of decision risk analysis for the design, analysis, and control of large-scale military programs.**Instruction:** Lectures and practical exercises in the theory and application of qualitative and quantitative techniques of decision risk analysis.**Credit Recommendation:** In the upper-division baccalaureate category, 2 semester hours in risk analysis (8/90); in the graduate degree category, 1 semester hour in risk analysis (8/90).**AR-0326-0013****1. DECISION ANALYSIS FOR LOGISTICIANS****2. DECISION RISK ANALYSIS FOR LOGISTICIANS****Course Number:** Version 1: ALMC-DC. Version 2: None.**Location:** Version 1: Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA. Version 2: Army Logistics Management College, Onsite at various locations; Army Logistics Management Center, Ft. Lee, VA; Army Logistics Management College, Ft. Lee, VA.**Length:** Version 1: 2 weeks (74 hours). Version 2: 2 weeks (74-78 hours).**Exhibit Dates:** Version 1: 8/93-Present. Version 2: 1/90-7/93**Learning Outcomes:** Version 1: To provide a basic understanding of concepts and techniques of decision analysis as applied to logistics problems. Version 2: To provide a basic understanding of concepts and techniques of decision risk analysis as applied to logistics problems**Instruction:** Version 1: Lectures and practical exercises in analysis techniques in logistics problems; application of analysis techniques; and case studies of actual problems in such logistics areas as requirements, procurement, distribution, and disposal. Version 2: Lectures and practical exercises in analysis techniques in logistics problems; application of analysis techniques; and case studies of actual problems in such logistics areas as requirements, procurement, distribution, and disposal.**Credit Recommendation:** Version 1: In the upper-division baccalaureate category, 2 semester hours in decision analysis (8/95); in the graduate degree category, 1 semester hour in decision analysis. Credit is to be granted in either the upper-division baccalaureate category or graduate degree category, but not in both (8/95). Version 2: In the upper-division baccalaureate category, 2 semester hours in decision risk analysis (8/90); in the graduate degree category, 1 semester hour in decision risk analysis. Credit is to be granted in either the upper-division baccalaureate category or graduate degree category, but not in both (8/90).**AR-0326-0042**

1. ARMY MEDICAL DEPARTMENT OFFICER (AMEDD) ADVANCED
2. ARMY MEDICAL DEPARTMENT (AMEDD) OFFICER ADVANCED
3. ARMY MEDICAL DEPARTMENT (AMEDD) OFFICER ADVANCED

Course Number: Version 1: 6-8-C22. Version 2: 6-8-C22. Version 3: 6-8-C22.**Location:** Academy of Health Sciences, Ft. Sam Houston, TX.**Length:** Version 1: 20 weeks (3035 hours). Version 2: 16-20 weeks (431-738 hours). Version 3: 20 weeks (569 hours).**Exhibit Dates:** Version 1: 1/95-Present. Version 2: 6/90-12/94. Version 3: 1/90-5/90.**Learning Outcomes:** Version 1: Upon completion of this course, the student will be able to describe the Army family advocacy program; discuss principles of resource management and personnel management; discuss military operations and protocols; manage NBC casualties; discuss preventive medicine programs; and discuss the mission of AMEDD divisions in combat. In addition, those in the health care administration track will be able to perform capitation budgetary; discuss the role of health care administration; perform library research; and manage the gateway-to-care program. Those in the command and staff track will be able to discuss command issues; coordinate AMEDD activities in combat; manage a unit awards program; identify current legal issues; discuss unit training programs; conduct combat support services operations; and set up/tear down deployable medical systems. Those in the preventive medicine track will be able to discuss military pest management issues; evaluate sanitary emergency and environmental science

issues, and identify environmental hazards. Those in the dental track will be able to identify the role of dental officers in war/fmass casualty; discuss dental quality assurance; and describe issues of dental program management. Those in the laboratory science track will be able to discuss current OSHA regulations and laboratory safety; integrate CLEA into laboratory operations; participate in clinical laboratory management activities; operate a field medical laboratory; and manage civilian employees. Those in the medical specialty track will complete an advanced clinical/administration practicum; perform the medical specialist's role in the field; and discuss issues in resource and management. Those in the nurse track will be able to implement basic trauma life support (BTLS); participate in the set-up and breakdown of a deployable medical system; identify nursing roles in the Navy and Marine Corps, the Air Force, and the National Disaster Medical System; and complete one of the following outcomes: manage resources, manpower, equipment and supplies in a clinical environment; integrate roles and responsibilities of the nurse counselor; integrate the roles of community health nursing or; integrate roles of nursing education/staff development. Those in the veterinary track will be able to identify cuts of meat purchased by the Defense Commissary Agency; discuss current issues in veterinary practice, food safety, and sanitary inspections; conduct veterinary field operations; perform a sanitary inspection; and conduct a food borne investigation. Those in the pharmacy track will be able to discuss current issues in pharmacy practice; participate in research activity; and demonstrate knowledge of pharmacokinetics. Those in the audiology track will be able to discuss audiology issues; complete a clinic rotation; complete a research project; and use the hearing evaluation automated registry system manager's module. Those in the optometry track will be able to discuss current trends and issues in optometry; complete a research project; and complete a clinical rotation. Students in the logistics track will be able to discuss current trends and issues; complete a research project; and monitor management indicators using a computer system. Those in the health services human resource manager track will be able to discuss the role and responsibility of the personnel offices; discuss current issues; and complete a research paper. Those students in the medical corps track will be able to discuss health care trends; discuss legal-ethical issues; discuss military roles of the physician; and discuss medical treatment of combat situations. Those in the radiation safety track will be able to discuss current issues in radiation safety; discuss current diagnostic and treatment procedures; and discuss military applications and hazards of current technology. Those in the behavioral sciences track will be able to establish a quality insurance (QI) program; evaluate clients exhibiting combat stress; organize intervention teams in a disaster/terrorist situation; and discuss specific Army intervention programs. Version 2: Upon completion of this course, the student will be able to describe the Army family advocacy program; discuss principles of resource management and personnel management; discuss military operations and protocols; manage NBC casualties; discuss preventive medicine programs; and discuss the mission of AMEDD divisions in combat. In addition, those in the health care

administration track will be able to perform capitation budgeting; discuss the role of health care administration; perform library research; and manage the gateway-to-care program. Those in the command and staff track will be able to discuss command issues; coordinate AMEDD activities in combat; manage a unit awards program; identify current legal issues; discuss unit training programs; conduct combat support services operations; and set up/tear down deployable medical systems. Those in the preventive medicine track will be able to discuss military pest management issues; evaluate sanitary emergency and environmental science issues; and identify environmental hazards. Those in the dental track will be able to identify the role of dental officers in war/mass casualty; discuss dental quality assurance; and describe issues of dental program management. Those in the laboratory science track will be able to discuss current OSHA regulations and laboratory safety; integrate CLIA into laboratory operations; participate in clinical laboratory management activities; operate a field medical laboratory; and manage civilian employees. Those in the medical specialty track will complete an advanced clinical/administration practicum; perform the medical specialist's role in the field; and discuss issues in resource and management. Those in the nurse track will be able to implement basic trauma life support (BTLS); participate in the set-up and breakdown of a deployable medical system; identify nursing roles in the Navy and Marine Corps, the Air Force, and the National Disaster Medical System; and complete one of the following outcomes: manage resources, manpower, equipment and supplies in a clinical environment; integrate roles and responsibilities of the nurse counselor; integrate the roles of community health nursing or; integrate roles of nursing education/staff development. Those in the veterinary track will be able to identify cuts of meat purchased by the Defense Commissary Agency; discuss current issues in veterinary practice, food safety, and sanitary inspections; conduct veterinary field operations; perform a sanitary inspection; and conduct a food borne investigation. Those in the pharmacy track will be able to discuss current issues in pharmacy practice; participate in research activity; and demonstrate knowledge of pharmacokinetics. Those in the audiology track will be able to discuss audiology issues; complete a clinic rotation; complete a research project; and use the hearing evaluation automated registry system manager's module. Those in the optometry track will be able to discuss current trends and issues in optometry; complete a research project; and complete a clinical rotation. Students in the logistics track will be able to discuss current trends and issues; complete a research project; and monitor management indicators using a computer system. Those in the health services human resource manager track will be able to discuss the role and responsibility of the personnel offices; discuss current issues; and complete a research paper. Those students in the medical corps track will be able to discuss health care trends; discuss legal-ethical issues; discuss military roles of the physician; and discuss medical treatment of combat situations. Those in the radiation safety track will be able to discuss current issues in radiation safety; discuss current diagnostic and treatment procedures; and discuss military applications and hazards of current technology.

Those in the behavioral sciences track will be able to establish a quality insurance (QI) program; evaluate clients exhibiting combat stress; organize intervention teams in a disaster/terrorist situation; and discuss specific Army intervention programs. *Version 3:* Upon completion of the course the student will have acquired general and specific advanced level military education and training. The AMEDD officer will be prepared to take command, leadership, and staff positions of greater responsibility.

Instruction: Version 1: Course content covers Army family advocacy program; medical equipment program; facility planning; resource management; health care automation; health care delivery system; quality assurance; military science; preventive medicine and dentistry; and food service operations. In addition, the health care administration track covers capitation budgeting issues in health care administration; roles of health care administrators; marketing; library research; JCAHO accreditation; negotiations; coordinated care; and total quality assurance. The specialty is taught through lectures and practical exercises and does not include a research paper. The command and staff specialty covers basic concepts of command, inspections, AMEDD synchronization; awards program; legal issues; and risk management. The specialty does not include a research paper and is conducted through lectures, practical exercises, and field exercises. The preventive medicine track covers pest management; combat preventive medicine; sanitation; epidemiology; environmental hazards; and research. The track is presented through lectures and practical exercises and the research project. The dental specialty covers dental leadership roles in mass casualty; total quality management; personnel management; sterilization and infection; CPR instructor training; and is presented through lectures and practical exercises and advanced individual training. The laboratory science track covers OSHA and laboratory safety; CLIA educational programs in laboratory sciences; budgeting and staffing; quality assurance; total quality management; civilian personnel management; and field exercises. The medical specialty track includes career development; leadership; marketing; clinical practicum; continuous quality improvement; facilities planning; budgeting; health risk appraisal; and the roles of the Army. There are lectures, practical exercises, and clinical practicum. The nurse track covers nursing practice standards; quality assurance; infection control; basic trauma life support; altitude stresses; deployable medical systems; Air Force, Navy, Marine Corps, and national disaster medical system; combat environment; one of the following tracks will be completed: clinical head nurse; recruitment/ROTC nurse corps; preventive medicine/community health nurse or nursing education staff development. This track is presented through lectures and practical exercises, and includes field exercises. The course does not include a research paper. The veterinary track includes use of working dogs; unit training; authority of veterinary inspectors; meat cuts; carcass disposition; antemortem/postmortem findings; veterinary threat analysis; animal rights; quality management; food safety; retail code; food borne infections. The course contains no research project. Methodology includes lectures, practical exercises, and field exercises. The pharmacy track covers pharmacy issues; parental nutrition; security of the phar-

macy; drug diversion; computer systems; pharmacy management; inspection; specialty pharmacies; quality assurance; budgeting and staffing; and pharmacokinetics. Teaching methods include lectures, practical exercises, and research. The audiology track covers manpower; contracts; audiology issues; personnel management; clinical rotation; research; hearing evaluation automated registry system (HEARS) manager's module and is conducted through lectures, practical exercises, clinical practicum, and research. The optometry track covers manpower; field optometry; quality improvement; profiling; personnel management; facilities planning; current trends; vision conservation; new developments; clinical experiences; and computer networking. Practical exercises and lectures are included, along with research. The logistics track covers property management; medical materiel management; biomedical maintenance; central processing; research; and theater medical management information system. Methods of presentation include lectures, research, and practical exercises. The health services human resources manager track covers the role of health services personnel officers; the role of adjutant; personnel issues; computer applications; special programs; research; EEOC; civilian personnel management; and AMEDD organizational structure. The medical corps track covers ethics; administration; trends; resource management; roles; quality assurance; leadership; combat injuries and treatment; research; and DRGs. There is minimal research involved in this specialty. The radiation track covers radiation protection; principles of radiation; JCAHO; quality control; update of specific procedures in diagnostic procedures and treatment; dosimetry; lasers; optical radiation; microwaves; electromagnetic interference; and ultrasound. Track has no research project. The behavioral science track covers quality insurance; role in combat; crisis intervention; alcohol and drug abuse program; case studies; budgeting; and research. There is a research project. *Version 2:* Course content covers Army family advocacy program; medical equipment program; facility planning; resource management; health care automation; health care delivery system; quality assurance; military science; preventive medicine and dentistry; and food service operations. In addition, the health care administration track covers capitation budgeting issues in health care administration; roles of health care administrators; marketing; library research; JCAHO accreditation; negotiations; coordinated care; and total quality assurance. The specialty is taught through lectures and practical exercises and does not include a research paper. The command and staff specialty covers basic concepts of command, inspections, AMEDD synchronization; awards program; legal issues; and risk management. The specialty does not include a research paper and is conducted through lectures, practical exercises, and field exercises. The preventive medicine track covers pest management; combat preventive medicine; sanitation; epidemiology; environmental hazards; and research. The track is presented through lectures and practical exercises and the research project. The dental specialty covers dental leadership roles in mass casualty; total quality management; personnel management; sterilization and infection; CPR instructor training; and is presented through lectures and practical exercises and advanced individual

training. The laboratory science track covers OSHA and laboratory safety, CIA educational programs in laboratory sciences; budgeting and staffing; quality assurance; total quality management; civilian personnel management; and field exercises. The medical specialty track includes career development, leadership, marketing; clinical practicum; continuous quality improvement; facilities planning; budgeting; health risk appraisal, and the roles of the Army. There are lectures, practical exercises, and clinical practicum. The nurse track covers nursing practice standards; quality assurance; infection control; basic trauma life support; altitude stresses; deployable medical systems. Air Force, Navy, Marine Corps, and national disaster medical system, combat environment, one of the following tracks will be completed: clinical head nurse; recruitment/ROTC nurse corps; preventive medicine/community health nurse or nursing education staff development. This track is presented through lectures and practical exercises, and includes field exercises. The course does not include a research paper. The veterinary track includes use of working dogs, unit training; authority of veterinary inspectors; meat cuts; carcass disposition; antemortem/postmortem findings; veterinary threat analysis; animal rights; quality management; food safety; retail code; food borne infections. The course contains no research project. Methodology includes lectures, practical exercises, and field exercises. The pharmacy track covers pharmacy issues; parental nutrition; security of the pharmacy; drug diversion; computer systems; pharmacy management; inspection; specialty pharmacies; quality assurance; budgeting and staffing; and pharmacokinetics. Teaching methods include lectures, practical exercises, and research. The audiology track covers manpower; contracts; audiology issues; personnel management; clinical rotation; research; hearing evaluation automated registry system (HEARS) manager's module and is conducted through lectures, practical exercises, clinical practicum, and research. The optometry track covers manpower; field optometry; quality improvement; profiling; personnel management; facilities planning; current trends; vision conservation; new developments; clinical experiences; and computer networking. Practical exercises and lectures are included, along with research. The logistics track covers property management; medical materiel management; biomedical maintenance; central processing; research; and theater medical management information system. Methods of presentation include lectures, research, and practical exercises. The health services human resources manager track covers the role of health services personnel officers; the role of adjutant; personnel issues; computer applications; special programs; research; EEOC; civilian personnel management; and AMEDD organizational structure. The medical corps track covers ethics; administration; trends; resource management; roles; quality assurance; leadership; combat injuries and treatment; research; and DRGs. There is minimal research involved in this specialty. The radiation track covers radiation protection; principles of radiation; JCAHO; quality control; update of specific procedures in diagnostic procedures and treatment; dosimetry; lasers; optical radiation; microwaves; electromagnetic interference; and ultrasound. Track has no research project. The behavioral science track covers quality insurance; role in

combat; crisis intervention; alcohol and drug abuse program; case studies; budgeting, and research. There is a research project. *Version 3:* Lectures, seminars, conferences, demonstrations, and practical exercises with particular emphasis on military science topics and health care administration. Students attend a common core then subject specific tracks.

Credit Recommendation: *Version 1:* In the graduate degree category, for the core curriculum in module 1, which all students complete, 8 semester hours in health care support service and 5 in military science; for module 2, which all students complete, 3 semester hours in computer applications and an additional 5 in military science; for module 3 credit is based on which track is completed. For those in the health care administration track, 6 semester hours; for those in the patient administration subtrack, 10 semester hours in that area; for those in the personnel subtrack, 10 in that area; and for those in human resources subtrack, 10 in that area. For those in the command and staff track, 10 semester hours; for those in environmental engineering and science, 6 semester hours in those areas; for those in laboratory track, 9 semester hours in laboratory; for those in the AMSC track, 4 semester hours for all, plus 2 in physician assistant for those in that subtrack; 2 semester hours in nutrition care for those in that subtrack; 2 in occupational therapy for those in that subtrack; and 2 in physical therapy for those in that subtrack; 10 semester hours in nursing for those in that track; 10 in veterinary science for those in that track; 9 in pharmacy for those in that track; 6 in audiology for those in that track; 7 in optometry for those in that track; 9 in logistics for those in that track; 10 in nuclear, biological and chemical for those in that track; 8 in leadership and 2 in military science for those in the AMEDD track; and 2 in dental for those in that track (10/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in CPR instructor training and certification for those in the dental track (8/93); in the upper-division baccalaureate category, 1 semester hour in preventive medicine, 3 in personnel management, 5 in military science, and 2 in resource management for all students; for those in the nurse track, 1 semester hour in basic trauma life support (8/93); in the graduate degree category, for those in the health care administration track, 4 semester hours in administration and 1 in issues in health care administration; for those in the command and staff track, 5 semester hours in military leadership and operations; for those in the preventive medicine track, 2 in environmental science, 1 in issues in preventive medicine, and 2 for the research project; for those in the dental track, 1 in issues in dental science and 1 in research/advanced skills; for those in the laboratory science track, 1 semester hour in federal and state regulations, 2 in medical laboratory field operations, 1 in issues in laboratory science, and 1 in research/advanced skills; for those in the medical specialty track, 2 semester hours in clinical/administrative practicum and 1 in issues for medical specialists; for those in the nurse track, 2 semester hours in the nursing specialty (clinical head nurse; recruitment/ROTC nurse corps; preventive medicine/community health nurse; or nursing education staff development); and 2 in nursing leadership issues; for those in the veterinary track, 3 semester hours in veterinary field operations and 2 in food safety issues/inspection; for those in the phar-

macy track, 1 in the research project, 1 in pharmacy issues, and 3 in pharmacokinetics; for those in the audiology track, 1 in issues in audiology, 2 in the research project, 1 in clinical experience, and 1 in hearing conservation management; for those in the optometry track, 2 in the research project, 1 in clinical experience, and 1 in optometry issues; for those in the logistics track, 2 in the research project, 2 in computer applications, and 1 in current issues; for those in the health services human resources manager track, 2 in the research project, 2 in personnel management, and 1 in current issues; for those in the medical corps track, 1 semester hour in ethical issues in health care, 1 in current trends in health care, and 3 in combat injuries; for those in the radiation safety track, 1 in issues in radiation safety and 4 in advanced radiation safety; and for those in the behavioral science track, 2 semester hours in crisis intervention, 1 in issues in behavioral science, and 2 in clinical research (8/93). *Version 3:* In the upper-division baccalaureate category, 9 semester hours in business management and organization (4/88).

AR-0326-0044

MASTER PLANNER

Course Number: EH 456.

Location: Combined Arms Training Center, Vilsack, W. Germany.

Length: 2 weeks (80 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to make limited studies in technical areas; coordinate information and approvals required to prepare a master plan; develop documents of the master plan, including environmental impact, land use, general site, utilities, road networks and technical support services; define functional requirements as Military Construction Army (MCA) programming; provide MCA details regarding cost estimates, construction criteria, energy requirements, and equipment programming; provide justification paragraphs and site sketches.

Instruction: Demonstrations, conference classes and practical exercises in the techniques, policies, and documents necessary for master planning considerations and construction planning. Main topics include development of a master plan to include documents, articulation with a community planning board, construction planning, and cost estimating.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in project management and 1 in community planning (10/88).

AR-0326-0045

1. MANPRINT ACTION OFFICERS

2. MANPRINT STAFF OFFICERS

Course Number: *Version 1:* ALMC-MS. *Version 2:* 7C-F27/500-F18.

Location: *Version 1:* Army Logistics Management College, Ft. Lee, VA. *Version 2:* Xerox Center, Leesburg, VA; Soldier Support Center, Ft. Belvoir, VA; Humphreys Center, Ft. Belvoir, VA.

Length: *Version 1:* 1-2 weeks (65 hours). *Version 2:* 2-3 weeks (117 hours).

Exhibit Dates: *Version 1:* 10/90–Present. *Version 2:* 1/90–9/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to introduce human factors engineering considerations into the management of a materiel development and acquisition process in order to increase performance in the total system. *Version 2:* Upon completion of the course, the student will be able to introduce human factors engineering considerations into the management of a materiel development and acquisition process in order to increase performance in the total system.

Instruction: *Version 1:* Includes classroom instruction, practical exercises, and independent study in the issues of manpower management, personnel, training, safety, human performance and workload analysis, and their effect on an acquisition system. *Version 2:* Includes classroom instruction, practical exercises, and independent study in the issues of manpower management, personnel, training, safety, human performance and workload analysis, and their effect on an acquisition system.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 2 semester hours in organizational behavior (8/95). *Version 2:* In the upper-division baccalaureate category, 2 semester hours in organizational behavior (with an emphasis on the non-theoretical approach) (12/88).

AR-0326-0046

ORGANIZATIONAL DEVELOPMENT CONSULTANTS

Course Number: ODCS 1-90.

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 15 weeks (579 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to directly apply negotiation and consulting skills in accomplishing organizational objectives.

Instruction: Instruction includes lecture, practical experience, structured experience, objective examination, discussion, reports, student demonstration, team development, and feedback to individuals.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in human resources management consulting (7/90).

AR-0326-0047

LOGISTICS MANAGEMENT DEVELOPMENT

Course Number: 8A-F16.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: 4 weeks (152–153 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to explain the fundamental concepts of materiel development and apply specific logistics policies and procedures; define and use the life-cycle management model in the contracting, inventory management, distribution, maintenance, and disposal of materiel; use statistical and probability techniques, computer tools, and behavioral theory to solve logistics problems; and integrate financial management theory into logistics operations.

Instruction: Lectures, discussions, and simulation exercises. Topics include life-cycle management model, contracting, materiel readi-

ness, asset management, financial management, and specific decision-making tools.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in logistics management (10/91).

AR-0326-0048

LOGISTICS MANAGEMENT DEVELOPMENT BY CORRESPONDENCE

Course Number: 8A-F16.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: Maximum, 52 weeks.

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to explain the fundamental concepts of materiel development and apply specific logistics policies and procedures; define and use the life-cycle management model in the contracting, inventory management, distribution, maintenance, and disposal of materiel; use statistical and probability techniques, computer tools, and behavioral theory to solve logistics problems; and integrate financial management theory into logistics operations.

Instruction: This is a correspondence course. Topics include life-cycle management model, contracting, materiel readiness, asset management, financial management, and specific decision-making tools.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in logistics management (10/91).

AR-0326-0049

ARMY MAINTENANCE MANAGEMENT

Course Number: 8A-F3.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: 4 weeks (152 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to increase the readiness and sustainability of the United States and allied forces by applying maintenance doctrine and policies, planning for and exercising management control over depot operations and wholesale support of the retail maintenance system.

Instruction: Lectures, case study, and practical exercises in maintenance system management including management development, materiel requirements, maintenance engineering, and maintenance operations.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in materiel management (10/91).

AR-0326-0050

ARMY MAINTENANCE MANAGEMENT BY CORRESPONDENCE

Course Number: 8A-F3.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: Maximum, 52 weeks.

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to increase the readiness and sustainability of the United States and allied forces by applying maintenance doctrine and policies, planning for and exercising management control over depot

operations and wholesale support of the retail maintenance system.

Instruction: This is a correspondence course covering topics in maintenance system management including management development, materiel requirements, maintenance engineering, and maintenance operations.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in materiel management (10/91).

AR-0326-0051

1. DEFENSE DISTRIBUTION MANAGEMENT

2. DEPOT SUPPLY OPERATIONS MANAGEMENT

Course Number: *Version 1:* 8B-F10. *Version 2:* 8B-F10.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Satellite Education Program, Ft. Lee, VA; Army Logistics Management College, Ft. Lee, VA.

Length: *Version 1:* 4 weeks (149 hours). *Version 2:* 4 weeks (155–157 hours).

Exhibit Dates: *Version 1:* 10/93–Present. *Version 2:* 1/90–9/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform the major depot functions (receiving, storing, inventory, issue, transportation, and control of materiel) and will be able to integrate the major depot into the Army logistics system. *Version 2:* Upon completion of the course, the student will be able to perform the major depot functions (receiving, storing, inventory, issue, transportation, and control of materiel) and will be able to integrate the major depot into the Army logistics system.

Instruction: *Version 1:* Instruction will be through lecture-conference, simulation, and workshops and will include such topics as general management practices and specific managerial fields in acquisition, maintenance, materiel, and depot supply operations. *Version 2:* Instruction will be through lecture-conference, simulation, and workshops and will include such topics as general management practices and specific managerial fields in acquisition, maintenance, materiel, and depot supply operations.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 4 semester hours in warehouse/distribution management (8/95). *Version 2:* In the upper-division baccalaureate category, 4 semester hours in management of warehouse operations (6/91).

AR-0326-0052

1. DEFENSE DISTRIBUTION MANAGEMENT BY CORRESPONDENCE

2. DEPOT SUPPLY OPERATIONS MANAGEMENT BY CORRESPONDENCE

Course Number: *Version 1:* 8B-F10. *Version 2:* 8B-F10.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: *Version 1:* Maximum, 52 weeks. *Version 2:* Maximum, 52 weeks.

Exhibit Dates: *Version 1:* 10/93–Present. *Version 2:* 1/90–9/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform the major depot functions (receiving, storing, inventory, issue, transportation, and control of materiel) and will be able to integrate the major depot into the Army logistics system.

Version 2: Upon completion of the course, the student will be able to perform the major depot functions (receiving, storing, inventory, issue, transportation, and control of material) and will be able to integrate the major depot into the Army logistics system.

Instruction: *Version 1:* This is a correspondence course presenting such topics as general management practices and specific managerial fields in acquisition, maintenance, materiel, and depot supply operations. *Version 2:* This is a correspondence course presenting such topics as general management practices and specific managerial fields in acquisition, maintenance, materiel, and depot supply operations.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 4 semester hours in warehouse/distribution management (8/95). *Version 2:* In the upper-division baccalaureate category, 4 semester hours in management of warehouse operations (6/91).

AR-0326-0053

CONTRACTING FUNDAMENTALS

(Management of Defense Acquisition Contracts Basic)

Course Number: *Version 1:* CON 101. *Version 2:* 8D-4320 (JT); 8D-4320; CON 101.

Location: Army Logistics Management College, Satellite Education Program, Ft. Lee, VA; Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: *Version 1:* 4 weeks (157 hours). *Version 2:* 4 weeks (156 hours).

Exhibit Dates: *Version 1:* 10/93–Present. *Version 2:* 1/90–9/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to analyze a given requirement for acquisition and select appropriate methods of satisfying the requirement; employ the various solicitation evaluation and award techniques which are utilized in the sealed bidding and negotiations process; administer contracts in accordance with their terms and conditions including standard and special contract clauses; apply the statutes and their implementing regulations which govern the contracting process; and apply basic procedures as described in the Federal Acquisition Regulation (FAR) along with other forms of documentation. *Version 2:* Upon completion of the course, the student will be able to analyze a given requirement for acquisition and select appropriate methods of satisfying the requirement; employ the various solicitation evaluation and award techniques which are utilized in the sealed bidding and negotiations process; administer contracts in accordance with their terms and conditions including standard and special contract clauses; and apply the statutes and their implementing regulations which govern the contracting process.

Instruction: *Version 1:* Lectures and practical exercises in contract management, including statutes, regulations, and policies; budgets and funds; specifications and allocations; potential contractors; small business and labor surplus programs; elements of a contract; purchase by sealed bidding; competitive proposals; cost and price analysis; contract types and purposes; clauses and provisions; taxes and other financial considerations; contract administration and modifications; quality control; termination of contracts; labor problems and contract closeout and appeals. Proctored final examinations are

administered. *Version 2:* Lectures and practical exercises in contract management, including statutes, regulations, and policies; budgets and funds; specifications and allocations; potential contractors; small business and labor surplus programs; elements of a contract; purchase by sealed bidding; competitive proposals; cost and price analysis; contract types and purposes; clauses and provisions; taxes and other financial considerations; contract administration and modifications; quality control; termination of contracts; labor problems and contract closeout and appeals.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in logistics management (9/95). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in logistics management (6/91).

AR-0326-0054

1. CONTRACTING FUNDAMENTALS BY CORRESPONDENCE
2. MANAGEMENT OF DEFENSE ACQUISITION CONTRACTS BASIC BY CORRESPONDENCE

Course Number: *Version 1:* CON 101. *Version 2:* 8D-4320 (JT); 8D-4320; CON 101.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: *Version 1:* Maximum, 52 weeks. *Version 2:* Maximum, 52 weeks.

Exhibit Dates: *Version 1:* 10/93–Present. *Version 2:* 1/90–9/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to analyze a given requirement for acquisition and select appropriate methods of satisfying the requirement; employ the various solicitation evaluation and award techniques which are utilized in the sealed bidding and negotiations process; administer contracts in accordance with their terms and conditions including standard and special contract clauses; apply the statutes and their implementing regulations which govern the contracting process; and apply the basic procedures described in the Federal Acquisition Regulations (FAR) along with other forms of documentation. *Version 2:* Upon completion of the course, the student will be able to analyze a given requirement for acquisition and select appropriate methods of satisfying the requirement; employ the various solicitation evaluation and award techniques which are utilized in the sealed bidding and negotiations process; administer contracts in accordance with their terms and conditions including standard and special contract clauses; and apply the statutes and their implementing regulations which govern the contracting process.

Instruction: *Version 1:* This is a correspondence course in contract management, including statutes, regulations, and policies; budgets and funds; specifications and allocations; potential contractors; small business and labor surplus programs; elements of a contract; purchase by sealed bidding; competitive proposals; cost and price analysis; contract types and purposes; clauses and provisions; taxes and other financial considerations; contract administration and modifications; quality control; termination of contracts; labor problems and contract closeout and appeals. Proctored final examinations are administered. *Version 2:* This is a correspondence course in contract management, including statutes, regulations, and policies; budgets and funds; specifications and allocations; poten-

tial contractors; small business and labor surplus programs; elements of a contract; purchase by sealed bidding; competitive proposals; cost and price analysis; contract types and purposes; clauses and provisions; taxes and other financial considerations; contract administration and modifications; quality control; termination of contracts; labor problems and contract closeout and appeals.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in logistics management (8/95). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in logistics management (6/91).

AR-0326-0055

1. INTERMEDIATE ACQUISITION LOGISTICS
2. INTEGRATED LOGISTICS SUPPORT ADVANCED

Course Number: *Version 1:* LOG 201. *Version 2:* ALMC-IT.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: *Version 1:* 3 weeks (115 hours). *Version 2:* 3 weeks (113 hours).

Exhibit Dates: *Version 1:* 9/91–Present. *Version 2:* 1/90–8/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to apply integrated logistics support management techniques in planning materiel acquisitions. *Version 2:* Upon completion of the course, the student will be able to apply integrated logistics support management techniques in planning materiel acquisitions.

Instruction: *Version 1:* Instruction includes lecture, exercises, and computer modeling to cover topics including policies, procedures, and concepts of materiel acquisition; integrated logistics support management; and contractual aspects of logistics support management. *Version 2:* Instruction includes lecture, exercises, and computer modeling to cover topics including policies, procedures, and concepts of materiel acquisition; integrated logistics support management; and contractual aspects of logistics support management.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 2 semester hours in procurement (8/95); in the graduate degree category, 1 semester hour in advanced logistics management (8/95). *Version 2:* In the upper-division baccalaureate category, 2 semester hours in materiel acquisition process and support systems (6/91); in the graduate degree category, 1 semester hour in materiel acquisition process and support systems. Credit is to be awarded in either the upper-division or the graduate category, but not both (6/91).

AR-0326-0056

- LOGISTICS SUPPORT ANALYSIS
- (Defense Basic Logistic Support Analysis)

Course Number: ALMC-LR; LOG 202.

Location: Army Logistics Management College, Satellite Education Program, Ft. Lee, VA; Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: 2 weeks (74 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to use management principles, procedures, and selection techniques to tailor a logistics support analysis

to meet unique needs of a material acquisition program; describe how logistics support analysis supports integrated logistics in a materiel acquisition; perform analysis and complete data records to build a logistics support analysis record.

Instruction: Lecture-conferences, practical exercises, and computer simulations in the application of integrated logistics support management. Topics include concepts, principles, and policies of materiel acquisition and logistics management; quantitative techniques in materiel acquisition and integrated logistics support; analytical techniques related to decision-making and cost effectiveness; and trade-off determinations using logistic parameters.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in materiel acquisition process and support systems (6/91); in the graduate degree category, 1 semester hour in materiel acquisition process and support systems. Credit is to be granted in either the upper-division or graduate category but not in both (6/91).

AR-0326-0057

INTERMEDIATE CONTRACTING

Course Number: CON 211.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: 3 weeks (92-96 hours).

Exhibit Dates: 6/94–Present.

Learning Outcomes: Before 6/94 see AR-0326-0010. Upon completion of the course, the student will be able to analyze and resolve key elements in the pre-award stages of contract negotiations and recognize the ethical and legal implications involved in the contract decision-making process.

Instruction: Lectures and practical exercises in procurement management, including procurement planning, funding, technical requirement impact; small business, labor surplus and disaster area relief operations; procurement by formal advertising and negotiation; contract types and purposes; cost and price analysis; contract administration; terminations and remedies; patents and data; and procurement trends. Lectures and practical exercises in planning for contract management including acquisition planning, socioeconomic programs and cost/price analysis; contract management including bidding, negotiations, modifications, and termination.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in contract management (6/96); in the graduate degree category, 1 semester hour in contract management. Credit is to be awarded in either the upper-division or graduate category, but not in both (6/96).

AR-0418-0001

TRAVEL CLERK

Course Number: 542-F4.

Location: Institute for Personnel and Resource Management, Ft. Benjamin Harrison, IN.

Length: 3 weeks (115 hours).

Exhibit Dates: 1/90–Present.

Objectives: To prepare students to function as travel clerks.

Instruction: Lectures and practical exercises on travel allowances, travel regulations and preparation of travel vouchers.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/88).

AR-0418-0004

PASSENGER TRAVEL SPECIALIST

Course Number: 8C-F11/542-F6.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 2 weeks (74 hours).

Exhibit Dates: 1/90–12/90.

Objectives: After 12/90 see AR-0418-0006. To train personnel in basic skills to function in a passenger travel office as a passenger travel specialist.

Instruction: Lectures and practical exercises in routing, documentation, entitlements, carrier guides and tariffs, group movements, travel orders, rentals and electronic reservation and ticketing system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in travel and tourism (7/85).

AR-0418-0006

PASSENGER TRAVEL SPECIALIST

Course Number: 8C-F11/542-F6.

Location: Transportation School, Ft. Eustis, VA.

Length: 2 weeks (72 hours).

Exhibit Dates: 1/91–Present.

Learning Outcomes: Before 1/91 see AR-0418-0004. Upon completion of the course, the student will be able to demonstrate the skills and knowledge to work with travel publications; interpret travel orders and entitlements; and effectively use the official airlines guides, official rail and bus line guides, and understand associated tariffs.

Instruction: Lectures and practical exercises in routing documentation, entitlements, carrier guides and tariffs, group movements, travel orders, rentals, and electronic reservation and ticketing systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in travel agency operations (3/94).

AR-0419-0005

TRAFFIC MANAGEMENT COORDINATOR PRIMARY TECHNICAL

Course Number: 514-71N20.

Location: Transportation School, Ft. Eustis, VA.

Length: 3-5 weeks (90-167 hours).

Exhibit Dates: 1/90–12/93.

Objectives: To provide enlisted personnel with the techniques and procedures necessary to control the movement of supplies and personnel by rail, water, highway, and air.

Instruction: Lectures and practical demonstrations in modes of transportation; transportation procedures and regulations; personnel and passenger movement; and motor, rail, water, and terminal transportation systems. Topics include the development of transportation tariff and rate structures, and regulations of traffic management. Also includes air systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in transportation or traffic operations (5/86).

Related Occupations: 71N.

AR-0419-0017

TRAFFIC MANAGEMENT COORDINATOR NONCOMMISSIONED OFFICER (NCO) ADVANCED

Course Number: 5-641-C42B; 5-641-C42.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 7-11 weeks (264-370 hours).

Exhibit Dates: 1/90–9/90.

Objectives: To train noncommissioned officers to handle administrative responsibilities in a transportation unit.

Instruction: Lectures and practical exercises in leadership styles, supply procedures, traffic management, demurrage, carrier qualifications, claims, freight movements, computerized movements management, rates and tariffs, freight classification, documentation of freight shipments, loss and damage, and terminal operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of supervision, 3 in principles of traffic and transportation management (3/88).

Related Occupations: 71N.

AR-0419-0024

MOTOR TRANSPORT NONCOMMISSIONED OFFICER (NCO) ADVANCED

Course Number: 8-641-C42.

Location: Transportation School, Ft. Eustis, VA; Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 5-7 weeks (187-238 hours).

Exhibit Dates: 1/90–9/90.

Objectives: To train noncommissioned officers in motor transport operations.

Instruction: Lectures and practical exercises in the duties of a noncommissioned officer in motor transportation. Topics include military operations; leadership styles and communications; staff functions; truck transport planning; and the organization, operation, mission, and function of specific motor transportation units.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of supervision and 2 as a technical elective in transportation (3/85).

Related Occupations: 64C.

AR-0419-0027

STRATEGIC MOBILITY PLANNING

Course Number: 822-F10; 8C-F2; 8C-ASI3S/822-F10.

Location: Transportation School, Ft. Eustis, VA.

Length: 3-4 weeks (109-137 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train selected commissioned officers, warrant officers, and enlisted personnel in planning, organizing, and conducting unit movements.

Instruction: Lectures and practical exercises including air movements and planning operations; preparation of equipment; restraint fundamentals; departure and arrival airfield pro-

cedures, dangerous cargo, joint combat airlift, helicopter landing procedures, unit movement by rail; railway equipment capabilities; loading, blocking, and tracing equipment on rail cars.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in general transportation and planning (3/88).

AR-0419-0033

TRANSPORTATION OFFICER BASIC
(Transportation Officer Orientation)

Course Number: 8-55 C20-88A/C/D, 8-55 C20-95A/C/D, 8-55 C20

Location: Transportation School, Ft. Eustis, VA; Transportation and Aviation Logistics School, Ft. Eustis, VA

Length: 12-20 weeks (515-828 hours).

Exhibit Dates: 1/90-Present

Objectives: To train newly commissioned officers for transportation operations management.

Instruction: Lectures and practical exercises in the organization, planning, and management of air, motor, rail, and water transportation movements, including truck company operations, convoy, rail operations, loading and blocking, terminal operations and management, cargo planning, stowage, dangerous cargo, traffic management, and freight movements and planning.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision and 2 in principles of depot operations (3/88).

AR-0419-0035

DEFENSE ADVANCED TRAFFIC MANAGEMENT
(Advanced Traffic Management)

Course Number: 8C-F3.

Location: Transportation School, Ft. Eustis, VA; Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 3 weeks (108 hours).

Exhibit Dates: 1/90-2/92.

Objectives: After 2/92 see AR-0419-0055. To train commissioned officers with prior schooling in traffic management in advanced managerial procedures for traffic and general transportation.

Instruction: Lectures and practical exercises in managerial procedures for traffic and general transportation, including economics of transportation, characteristics of various modes and carriers, transportation services and regulations, industrial and military traffic management, transportation in logistics, movement of regular and special cargo (weapons and missiles), household goods and passengers, claim prevention, and rate negotiation.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in transportation management and 2 in economics of transportation (5/86).

AR-0419-0036

INSTALLATION TRAFFIC MANAGEMENT

Course Number: 55-G-F1; 8C-F4.

Location: Transportation School, Ft. Eustis, VA.

Length: 4 weeks (143-155 hours).

Exhibit Dates: 1/90-5/91.

Objectives: To train commissioned officers in the performance of commercial and military traffic functions and in the military transportation functions of an installation transportation officer.

Instruction: Lectures and practical exercises in installation traffic management, including passenger, freight, and personal property traffic. Topics include carrier qualifications, modes and storage selection, quality control procedures, traffic management, specialized freight movements, small-shipment services, organization and field installations, commercial transportation service, procurement, integrated accounting, and movement of units and large groups.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in transportation management (4/84).

AR-0419-0037

BASIC JOINT PERSONAL PROPERTY
(Joint Personal Property)

Course Number: 8C-F5/514-F2; 8C-S13V/553-ASIH2.

Location: Transportation School, Ft. Eustis, VA; Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 2 weeks (74-77 hours).

Exhibit Dates: 1/90-9/91.

Objectives: After 9/91 see AR-0419-0063. To train commissioned officers, warrant officers, and civilians in traffic management functions associated with personal property shipments.

Instruction: Lectures, practical exercises, and field experiences including entitlement and authorization, shipping procedures, carrier contracts, utilization of carrier rate tariffs, establishment of a traffic distribution record, inspection of shipments and facilities of carrier, claim procedures, and traffic and control procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in traffic distribution, freight loss, and damage claims (3/88).

AR-0419-0040

TRAFFIC MANAGEMENT COORDINATOR

Course Number: 514-71N10.

Location: Transportation School, Ft. Eustis, VA; Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 5-6 weeks (202 hours).

Exhibit Dates: 1/90-9/91.

Objectives: To provide enlisted personnel with the knowledge of transportation and related activities necessary to perform entry-level duties.

Instruction: Lectures and practical exercises in performance of critical tasks related to cargo documentation, planning, loss and damage control, unit movements, passenger movements, overview of installation traffic officer functions, and orientation on computerized traffic movement management systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in introduction to traffic and transportation (5/86).

Related Occupations: 71N.

AR-0419-0041

TRAFFIC MANAGEMENT COORDINATOR BASIC
NON-COMMISSIONED OFFICER (NCO)
(Traffic Management Coordinator Basic Technical)

Course Number: 514-71N30, 514-88N30; 533-88N30.

Location: Transportation School, Ft. Eustis, VA; Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 3-8 weeks (92-254 hours).

Exhibit Dates: 1/90-9/91.

Objectives: After 9/91 see AR-0419-0058. To provide enlisted personnel with the techniques and procedures necessary to supervise and control the movement of supplies and personnel by rail, highway, and air.

Instruction: Lectures and practical demonstrations in modes of transportation, transportation procedures and regulations; management of personnel and passenger movement; and supervision of motor, rail, water, and terminal transportation systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in traffic operations supervision or as a technical elective in transportation and traffic management. See AR-1406-0090 for common core credit (10/91).

Related Occupations: 71N.

AR-0419-0042

INSTRUCTOR TRAINING

Course Number: 19-82.

Location: Training Center, Ft. Dix, NJ.

Length: 2 weeks (77 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide personnel assigned as instructors with the knowledge, skills, and techniques necessary for teaching military subjects.

Instruction: Instruction in principles of lesson planning, selection of visual aids, instructional strategies and techniques, and the learning of teaching skills. Instructional styles including conference classes, demonstrations, performance-oriented instruction, and remedial instruction are emphasized. Students are required to give various types and lengths of presentations which are critiqued by instructional staff.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in speech or public speaking (9/83); in the upper-division baccalaureate category, 3 semester hours in methods of instruction (9/83).

AR-0419-0043

TRANSPORTATION FIELD GRADE OFFICER
REFRESHER

Course Number: 8C-F13.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 2 weeks (72 hours).

Exhibit Dates: 1/90-12/93.

Objectives: To provide a broad knowledge base in the current organization and practices of transportation activities.

Instruction: This course will utilize lectures, demonstrations, and practical exercises to give the individual a broad base of knowledge of current organization and management practices of the Transportation Corps activities.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in transportation management (5/86).

AR-0419-0044

BASIC FREIGHT TRAFFIC

(Defense Basic Traffic Management)

Course Number: 8C-F12/553-F1.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 2 weeks (73 hours).

Exhibit Dates: 1/90-9/92.

Objectives: After 9/92 see AR-0419-0057. To provide select individuals with a broad base of knowledge in commercial transportation systems as applied to government freight transportation.

Instruction: Lectures and practical exercises in the knowledge of commercial transportation systems and the skills to procure services from commercial sources as applied to Department of Defense freight transportation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in transportation practices (6/91).

AR-0419-0045

WATERCRAFT OPERATOR ADVANCED

NONCOMMISSIONED OFFICER (NCO)

Course Number: 062-88K40.

Location: Transportation School, Ft. Eustis, VA.

Length: 12-14 weeks (445-503 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to perform watercraft supervision and administration including logbooks, presail inspections, and shipboard emergency drills. The student will be able to perform cargo handling operations, obtain weather information, and interpret international code flags and flashing light signals. The student will be able to use navigational aids and to serve as a mate on a multiscrew vessel.

Instruction: Lectures and practical exercises including the operation of multiple screw vessels.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of supervision, 3 in marine navigation, and 1 in multiple screw vessel operation. See AR-1404-0035 for common core credit (10/91).

Related Occupations: 88K.

AR-0419-0046

CARGO SPECIALIST

Course Number: 822-88H10.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 9-10 weeks (336-338 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform cargo handling operations, loading procedures, and transshipment of cargo at air, rail, and marine terminals.

Instruction: Includes lectures, demonstrations and performance exercises in rigging and positioning ship's cargo-handling gear and safety nets; operating materials-handling equipment, winches, and cranes; lift on/off and roll on/off stevedoring operations aboard ship for

vehicles, heavy lifts, container, and general cargo operations of Hagglund's crane and the rough terrain forklift. Also includes some preventive maintenance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in marine cargo operations (4/92).

Related Occupations: 88H.

AR-0419-0047

TRANSPORTATION OFFICER ADVANCED RESERVE

PHASES II AND IV

Course Number: 8-55-C22-RC.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 4 weeks (148 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to manage the movement and handling of cargo, determine and develop marine terminal cargo capacity, account for cargo shipments and receivables, manage highway movements and rail transportation.

Instruction: Includes lectures, demonstrations and performance exercises in marine cargo packaging and handling, containerization, ship loading techniques, cargo discharge operation, deployment, cargo accountability, motor transportation planning and control, convoy operations, rail equipment capabilities, rail planning and train operations, yard and terminal operations, railway construction and rehabilitation. Phases II and IV are resident phases; the others are completed by correspondence.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (3/88).

AR-0419-0048

MOTOR TRANSPORT OPERATOR BASIC

NONCOMMISSIONED OFFICER (NCO)

Course Number: 811-88M30.

Location: Transportation School, Ft. Eustis, VA.

Length: 7 weeks (295 hours).

Exhibit Dates: 10/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to supervise motor transport operators in preventive auto/truck/heavy equipment maintenance and in deployment and record keeping.

Instruction: Lectures and practical application in the areas of leadership, management, and supervisory functions in the area of motor transport operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in leadership, 1 in automotive maintenance, 1 in records and information management. See AR-1406-0090 for common core credit (6/91).

Related Occupations: 88M.

AR-0419-0049

MOTOR TRANSPORT OPERATOR ADVANCED

NONCOMMISSIONED OFFICER (NCO)

Course Number: 8-641-C42.

Location: Transportation School, Ft. Eustis, VA.

Length: 8 weeks (333 hours).

Exhibit Dates: 10/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to provide leadership, effective communications, record keeping, and office management to the motor transport system, and plan and execute materials procurement.

Instruction: Lectures and practical application by demonstration and field experience in planning, execution, analysis in deployment, group organization, and materials procurement.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in business communication and 2 in office administration. See AR-1404-0035 for common core credit (6/91).

AR-0419-0050

TRAFFIC MANAGEMENT COORDINATOR ADVANCED NONCOMMISSIONED OFFICER (NCO)

Course Number: 5-88-C42B.

Location: Transportation School, Ft. Eustis, VA.

Length: 7-8 weeks (176-245 hours).

Exhibit Dates: 10/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to perform the administrative duties for terminal operation, local transfer, and highway movement for the transportation of vehicles and cargo.

Instruction: Lectures and practical exercises in leadership styles, supply procedures, traffic management, demurrage, carrier qualifications, claims, freight movements, computerized movements management, rates and tariffs, freight classification, documentation of freight shipments, loss and damage, and terminal operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of supervision and 2 in introduction to transportation. See AR-1404-0035 for common core credit (10/91).

Related Occupations: 88N.

AR-0419-0051

CARGO SPECIALIST ADVANCED NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 822-88H40.
Version 2: 5-88-C42A.

Location: Aviation Logistics School, Ft. Eustis, VA; Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 9 weeks (223 hours).
Version 2: 7-8 weeks (276 hours).

Exhibit Dates: *Version 1:* 10/92-Present.
Version 2: 1/90-9/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to supervise and perform the duties, functions, operations, and problem solving inherent to water terminal organizations. *Version 2:* Upon completion of the course the student will be able to apply the principles of ocean cargo documentation, terminal operations, and vessel loading and discharge.

Instruction: *Version 1:* Lectures, practical exercises, and examinations on water terminal operations, supervision, water transport, operations, and military operations. *Version 2:* Lectures and practical exercises on military operations, leadership and communication, staff functions, water transport operations, and the supervision associated with water terminal operations.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in water terminal operations. See AR 1404-0035 for common core credit (3/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in water terminal operations. See AR 1404-0035 for common core credit (6/91).

Related Occupations: 88H

AR-0419-0052

AIR DEPLOYMENT PLANNING

Course Number: 8C-S13S/553-F4

Location: Joint Strategic Deployment Training Center, Ft. Eustis, VA.

Length: 3 weeks (110 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to plan air movements; determine aircraft limitations; and load and secure cargo.

Instruction: Lectures and limited practical experience in planning air deployment, aircraft restrictions, loading, and securing cargo.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (6/91).

AR-0419-0053

SURFACE DEPLOYMENT PLANNING

Course Number: 8C-F17/553-F5.

Location: Joint Strategic Deployment Training Center, Ft. Eustis, VA.

Length: 2 weeks (71-73 hours).

Exhibit Dates: 4/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to plan surface deployment by highway, rail or waterway.

Instruction: Lectures and limited practical exercises in deployment planning, documentation and security. Course covers deployment by rail, by roadway and by water. After 6/92, course also included deployment by air.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (6/92).

AR-0419-0054

TRANSPORTATION OFFICER ADVANCED

Course Number: 8-55-C22.

Location: Transportation School, Ft. Eustis, VA.

Length: 20 weeks (809 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to apply the command and staff skills needed to succeed as commanders and staff officers in the transportation field.

Instruction: Lectures and practical exercises in leadership, management, logistics, data processing, operations research applications, tactics involving nuclear, biological, and chemical operations, air, motor, rail and water terminals and transport, traffic management, and written and verbal communications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision, 2 in introductory data processing, 3 in principles of transportation, 3 in business communications and report writing, and 2 in public speaking (6/91); in the upper-division baccalaureate category, 6 semester hours in traffic management (6/91).

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (3/94).

AR-0419-0055

DEFENSE ADVANCED TRAFFIC MANAGEMENT

Course Number: 8C-FC.

Location: Transportation School, Ft. Eustis, VA.

Length: 2 weeks (72 hours).

Exhibit Dates: 3/92–Present.

Learning Outcomes: Before 3/92 see AR-0419-0035. Upon completion of the course, the student will be able to perform advanced administrative duties in the transportation field.

Instruction: Guest speakers from the Department of Defense, other government agencies, and commercial industry. Field trips are included.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (3/94).

AR-0419-0056

STRATEGIC DEPLOYMENT PLANNING

Course Number: 8C-F16/533-F3.

Location: Transportation School, Ft. Eustis, VA.

Length: 2 weeks (71 hours).

Exhibit Dates: 3/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to plan and organize deployment and execute a deployment plan.

Instruction: Lectures and practical exercises on deployment planning, plan execution, communications, and organization of deployment and field operations.

Credit Recommendation: Credit is not recommended because the program is a broad-based orientation and contains diverse skill development (3/94).

AR-0419-0057

BASIC FREIGHT TRAFFIC

Course Number: 8C-F12/553-F1.

Location: Transportation School, Ft. Eustis, VA.

Length: 2 weeks (71 hours).

Exhibit Dates: 10/92–Present.

Learning Outcomes: Before 10/92 see AR-0419-0044. Upon completion of the course, the student will be able to move freight within the US and procure and evaluate commercial transportation services.

Instruction: Lectures and practical exercises in commercial transportation systems and the skills to procure services from commercial sources.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in transportation practices (3/94).

AR-0419-0058

TRAFFIC MANAGEMENT COORDINATOR BASIC NONCOMMISSIONED (NCO)

Course Number: 553-88N30.

Location: Transportation School, Ft. Eustis, VA.

Length: 7 weeks (257 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Before 10/91 see AR-0419-0041. Upon completion of the course, the student will be able to coordinate transportation

activities including both personnel and cargo, select modes of transportation; determine handling and packaging requirements; and trace routing.

Instruction: Lectures and practical demonstrations in modes of transportation, transportation procedures and regulations, management of personnel and passenger movement, and supervision of motor, rail, water, air, and terminal transportation systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in transportation management supervision and 1 in logistics. See AR-1406-0090 for common core credit (3/94).

Related Occupations: 88N.

AR-0419-0059

INSTALLATION TRAFFIC MANAGEMENT

Course Number: 8C-F4/553-F10.

Location: Transportation School, Ft. Eustis, VA.

Length: 2 weeks (73 hours).

Exhibit Dates: 6/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the duties of the base transportation officer.

Instruction: Lectures and practical exercises in commercial and military traffic functions. Topics include passenger travel, documentation, shipment of personal property, storage, military transportation and movement procedures, loss and damage detection, demurrage, security, and hazardous cargo.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in transportation management (3/94).

AR-0419-0060

TRAFFIC MANAGEMENT COORDINATOR ADVANCED NONCOMMISSIONED OFFICER (NCO) RESERVE

Course Number: 551-88N40-RC.

Location: Selected Reserve Training Locations, US.

Length: 76 hours.

Exhibit Dates: 10/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform administrative duties for terminal operation, local transfer, and highway movement for the transportation of vehicles and cargo.

Instruction: Lectures and practical exercises in planning and controlling movement, local transfer, rail and air transportation, and coordination of cargo shipments.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to transportation (3/94).

Related Occupations: 88N.

AR-0419-0061

TRAFFIC MANAGEMENT COORDINATOR

Course Number: 553-88N10.

Location: Transportation School, Ft. Eustis, VA.

Length: 8-9 weeks (261-317 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform entry level duties in selection of transportation modes, logistics, routing, personnel and cargo

transportation, computerized management systems, and hazardous materials guidelines.

Instruction: Lectures and practical exercises in transportation modes; cargo transport; personnel transport; hazardous chemical classification, handling, and shipping; loss and claims; logistics requirements, computer management systems, and routing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in transportation management (3/94).

Related Occupations: 88N.

AR-0419-0062

TRANSPORTATION OFFICER (BRANCH
QUALIFICATION)

Course Number: 8-55-C20-88A/C/D (BQ).

Location: Transportation School, Ft. Eustis, VA.

Length: 4 weeks (144 hours).

Exhibit Dates: 5/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to determine shipping methods, identify/label containers including hazardous materials, and determine adequate packaging.

Instruction: Course includes a review of fundamentals of transportation, including packaging, paperwork, labeling, shipping method selection, and hazardous materials regulations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in transportation management (3/94).

Related Occupations: 88A; 88C; 88D.

AR-0419-0063

JOINT PERSONAL PROPERTY

Course Number: 8C-S13V/553-ASIH2.

Location: Transportation School, Ft. Eustis, VA.

Length: 2 weeks (73 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Before 10/91 see AR-0419-0037. Upon completion of the course, the student will have a working knowledge of personal property transportation methods and will be able to determine and maintain quality assurance of transported property.

Instruction: Lectures and practical application of methods of transportation, temporary storage, long-term storage, maintaining records, quality assurance, basic regulations, and claim procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in transportation, freight loss, and claims (3/94).

AR-0419-0064

TRAFFIC MANAGEMENT COORDINATOR BASIC
NONCOMMISSIONED OFFICER (NCO)
RESERVE

Course Number: 551-88N30-RC.

Location: Selected Reserve Training Locations, US.

Length: 91 hours.

Exhibit Dates: 7/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise and control the movement of personnel and cargo by rail, highway, and air.

Instruction: Lectures and practical exercises in shipping documents; routing; and air, rail, and highway movement.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (3/94).

Related Occupations: 88N.

AR-0505-0001

EQUAL OPPORTUNITY REPRESENTATIVE

Course Number: DL 471.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 2 weeks (68 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to gather information on possible equal opportunity violations; lead guided discussions on equal opportunity subjects; identify and discriminate between actual and suspected equal opportunity violations; prepare and present an information briefing; and effectively communicate with all soldiers, regardless of race, sex, or religion.

Instruction: Lectures, demonstrations, and seminars in which the student is required to give a three-to-five minute impromptu speech, a ten-minute lecture, and lead a twenty-minute group discussion.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in speech communications (10/88).

AR-0602-0007

ENGLISH 3200: PROGRAMMED COURSE IN
GRAMMAR AND USAGE

Course Number: 1-19-XR-100.

Location: Chemical School, Ft. McClellan, AL; Military Police School, Ft. McClellan, AL.

Length: Self-paced, 2-3 weeks (104 hours).

Exhibit Dates: 1/90–1/92.

Objectives: To provide selected enlisted personnel, noncommissioned and commissioned officers with a working knowledge of English usage.

Instruction: Self-paced instruction utilizing a programmed workbook. Course covers grammar usage, sentence construction, and punctuation.

Credit Recommendation: In the vocational certificate category, 3 semester hours in grammar or English usage (3/82).

AR-0701-0002

DENTAL HYGIENE

Course Number: 330-X2.

Location: Medical Field Service School, Ft. Sam Houston, TX; Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 16 weeks (664 hours).

Exhibit Dates: 1/90–10/90.

Objectives: To provide the student with the knowledge and skills to perform the duties of dental hygienist and an expanded dental assistant under the supervision of a dental corps officer.

Instruction: Instruction includes: performing oral hygiene, prophylactic procedures; conducting individual oral disease programs; applying pit and fissure sealants to the teeth; exposing, processing, and mounting dental radiographs; making preliminary dental impressions on patients and fabricating diagnostic

casts; placing and finishing dental restorations; cleaning and sterilizing dental instruments and equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic dental science, 2 in dental health, 8 in clinical training in dental hygiene, 3 in dental materials, 2 in nutrition and 2 in dental anatomy and physiology (9/85).

Related Occupations: 91E.

AR-0701-0012

DENTAL SPECIALIST RESERVE COMPONENT
(NONRESIDENT/RESIDENT) PHASE 2

Course Number: 330-91E10-RC.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (70-82 hours).

Exhibit Dates: 1/90–1/93.

Learning Outcomes: Upon completion of the course the student will be able to perform the procedures necessary to assist the dental officer in the examination, care, and treatment in the oral region.

Instruction: Phase II, the resident portion of the course, consists of conferences and practical exercises in basic dental sciences, radiology, materials, and records and also covers the duties of the dental specialist.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in dental radiology and 2 in chairside assisting (10/90).

AR-0701-0013

DENTAL SPECIALIST

Course Number: *Version 1:* 330-91E10.
Version 2: 330-91E10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 7 weeks (266 hours).
Version 2: 6 weeks (221-232 hours).

Exhibit Dates: *Version 1:* 10/95–Present.
Version 2: 1/90–9/95.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform as a dental assistant including four handed chairside assisting and taking dental radiographs. *Version 2:* Upon completion of the course the student will be able to perform the procedures necessary to assist the dental officer in care, examinations and treatment of the oral region.

Instruction: *Version 1:* This seven week course includes lecture, discussions, demonstration and laboratory practice of biomedical sciences, dental radiology, dental materials and chairside assisting. *Version 2:* Lectures and practical experience in the basic principles of performing dental assisting duties, learning to expose, process, and mount dental radiographs for diagnostic value, mix commonly used dental restoration and impression materials, prepare instrument setups, and sterilize and disinfect used dental instruments.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in basic dental science, 2 in dental radiography, and 2 in chairside assisting (5/96). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in basic dental science, 2 in dental radiology, and 2 in chairside assisting (8/92).

Related Occupations: 91E.

AR-0701-0014

1. DENTAL LABORATORY SPECIALIST
2. DENTAL LABORATORY SPECIALIST (BASIC)

Course Number: *Version 1:* 331-N5 *Version 2:* 331-42D10

Location: Academy of Health Sciences, Ft. Sam Houston, TX

Length: *Version 1:* 24 weeks (967 hours). *Version 2:* 19 weeks (761-855 hours)

Exhibit Dates: *Version 1:* 3/95–Present. *Version 2:* 1/90–2/95.

Learning Outcomes: *Version 1:* Upon completion of the course, the student should be able to function in a manner that reflects successful completion of academic subjects found in basic dental sciences, and basic dental laboratory procedures; fabricate complete dentures, removable partial dentures, sample fixed prosthesis, orthodontic retainers and occlusal splints; provide dental laboratory support in a field environment. *Version 2:* Upon completion of the course, the student will be able to perform dental prosthetic laboratory techniques.

Instruction: *Version 1:* Course instruction in basic dental science, dental materials and equipment, laboratory skills, and dental devices is given through conferences and practical exercise. Instruction concerning laboratory equipment and most topics on fabrication procedures are approached using demonstrations. Students are evaluated through regular testing. *Version 2:* Lectures and practical exercises in basic dental prosthetic laboratory techniques. Course includes anatomy and tooth morphology, basic dental materials, and complete denture prosthetics.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in tooth anatomy, 2 in dental materials, 5 in dental laboratory procedures - basic, and 22 in dental laboratory skills - dentures and prosthetics (10/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in tooth anatomy, 1 in dental materials, and 6 in dental laboratory procedures (12/93).

Related Occupations: 91E.

AR-0701-0015

DENTAL LABORATORY SPECIALIST (SENIOR)

Course Number: 331-42D30.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 10 weeks (328-393 hours).

Exhibit Dates: 1/90–9/91.

Learning Outcomes: Upon completion of the course, the student will be able to fabricate complex dental appliances to a clinically acceptable standard including: ceramic crowns, porcelain fused-to-metal crowns, fixed partial dentures, fixed removable semi-precision appliances, and complex orthodontic and surgical appliances.

Instruction: This course includes lectures, discussions, conferences, demonstrations, and practical exercises in coronal morphology, Hallow bulb obturator, maxillary crowns and dentures, acid etched bridge, porcelain jacket crowns, mandibular partial dentures, semi-precision attachments, denture repair, and post-solder techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in maxillofacial appliances, 5 in porcelain fused to metal restorations,

2 in semi-precision attachments, and 1 in ceramic alloys (3/90).

AR-0701-0016

PREVENTIVE DENTISTRY SPECIALIST

Course Number: *Version 1:* 330-X2 *Version 2:* 330-X2 *Version 3:* 330-X2

Location: Academy of Health Sciences, Ft. Sam Houston, TX

Length: *Version 1:* 12 weeks (478 hours) *Version 2:* 16 weeks (645 hours) *Version 3:* 16 weeks (645-653 hours)

Exhibit Dates: *Version 1:* 4/96–Present. *Version 2:* 1/94–3/96. *Version 3:* 11/90–12/93.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to provide preventive dental services including: oral hygiene prophylactic procedures, conduct individual oral disease control programs, apply pit and fissure sealants, expose and evaluate dental radiographs, place and finish dental restorations, clean and sterilize dental equipment and instruments, and perform expanded duties. *Version 2:* Upon completion of the course, the student will be able to provide preventive dental services including: oral hygiene prophylactic procedures, conduct individual oral disease control programs, apply pit and fissure sealants, expose and evaluate dental radiographs, place and finish dental restorations, clean and sterilize dental equipment and instruments, and perform expanded duties. *Version 3:* Upon completion of the course, the student will be able to perform oral hygiene prophylactic procedures; conduct individual oral disease control programs; apply pit and fissure sealants to the teeth; evaluate dental radiographs; make preliminary dental impressions; and place and finish dental restorations.

Instruction: *Version 1:* This version is pending evaluation. Course includes lecture, discussion, demonstration and laboratory practice of dental sciences, dental materials, dental anatomy and physiology, expanded duties, and dental pathology. *Version 2:* This 16 week course includes lecture, discussion, demonstration and laboratory practice of dental sciences, dental materials, dental anatomy and physiology, expanded duties, and dental pathology. *Version 3:* Instruction includes oral hygiene; prophylactic procedures; conducting individual oral disease programs; applying pit and fissure sealants to the teeth; evaluating radiographs; performing expanded duties in dental procedures; making preliminary dental impressions on patients and fabricating diagnostic casts; placing and finishing dental restorations; and cleaning and sterilizing dental instruments and equipment.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the upper-division baccalaureate category, 2 semester hours in dental anatomy, morphology and physiology, 3 in dental materials, 2 in nutrition, 3 in dental sciences, 2 in dental health, 2 in expanded procedures, and 8 in clinical practice (10/95). *Version 3:* In the lower-division baccalaureate/associate degree category, 3 semester hours in basic dental science, 2 in dental health, 8 in clinical training in dental hygiene, 3 in dental materials, 2 in nutrition, 2 in expanded duties in dental procedures, and 2 in dental anatomy and physiology (1/94).

AR-0701-0017

ARMY MEDICAL DEPARTMENT (AMEDD) BASIC
NONCOMMISSIONED OFFICER (NCO)
(42D)

Course Number: 6-8-C40 (42D).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 19 weeks (686 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise and manage a dental laboratory, including personnel, equipment, records, infection control procedures, and X-ray safety. Student will perform all of the procedures expected in the dental laboratory including fabricating dental appliances.

Instruction: The course covers dental laboratory and clinic management; personnel supervision; infection control procedures; dental records; dental anatomy; equipment maintenance; computer use; and the fabrication of dental and orthodontic appliances. Methods of instruction include lectures, laboratories, discussions, small group work, and supervised practice.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (8/93); in the upper-division baccalaureate category, 2 semester hours in dental anatomy, 2 in dental clinic management, 3 in orthodontic appliances, 2 in military science, 3 in management and supervision, and 6 in dental appliances (8/93).

Related Occupations: 42D.

AR-0701-0018

1. ARMY MEDICAL DEPARTMENT (AMEDD)
NONCOMMISSIONED OFFICER (NCO) BASIC
2. ARMY MEDICAL DEPARTMENT (AMEDD)
NONCOMMISSIONED OFFICER (NCO) BASIC
(91E)

Course Number: *Version 1:* 6-8-C40 (91E). *Version 2:* 6-8-C40 (91E).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 2 weeks (50-80 hours). *Version 2:* 7 weeks (252 hours).

Exhibit Dates: *Version 1:* 4/95–Present. *Version 2:* 10/91–3/95.

Learning Outcomes: *Version 1:* Upon completion of the course, the student (dental technician) will be able to supervise or perform dental, preventive dental and common dental laboratory procedures. The training program stresses leadership competencies in different environment, e.g., combat or peacetime. Dental management is emphasized. *Version 2:* Upon completion of the course, the student will be able to manage and supervise a dental laboratory. Includes personnel supervision, equipment maintenance, infection control, and records management.

Instruction: *Version 1:* Topics such as the general history and traditions of the dental care system, leadership development, and resource management are formatted instructionally via conferences and practical exercises. Examinations are used to reinforce instructional materials. *Version 2:* The course covers personnel supervision and leadership; dental equipment; computer usage; infection control; occupational safety; dental patient records; and management. Methodologies include laboratories, lectures,

discussions, presentations, and practical applications.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in leadership and management training (5/96). *Version 2:* In the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (8/93); in the upper-division baccalaureate category, 3 semester hours in management and supervision and 2 in military science (8/93).

Related Occupations: 91E.

AR-0701-0019

ADVANCED DENTAL LABORATORY SPECIALIST

Course Number: 331-F1.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 6 weeks (233 hours).

Exhibit Dates: 5/95–Present.

Learning Outcomes: Upon completion of the course, the student will be expected to wax and carve retainers and pontics to a clinically acceptable level; reproduce missing oral tissues to a clinically acceptable level; discuss principles of occlusion for fixed prostheses; discuss concepts of color and its effects on ceramic and porcelain restorations; apply knowledge of fixed partial dentures; apply concepts to the fabrication of maxillofacial devices; and apply fabrication of porcelain fused to metal devices.

Instruction: Instruction that discusses manipulation or fabrication of materials such as porcelain or maxillofacial appliances, are taught using the conference style. Instruction that requires student manipulation of materials are usually approached first through demonstration, followed by practical exercises. Students are evaluated through examinations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in dental laboratory (10/95).

Related Occupations: 91E.

AR-0702-0005

RENAL DIALYSIS TECHNICIAN

(Dialysis Technician)

Course Number: 300-F2.

Location: Walter Reed Medical Center, Washington, DC; Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 20 weeks (734–735 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide selected personnel with knowledge and skills required to perform safe and effective hemodialysis and peritoneal dialysis.

Instruction: This course provides the student with a comprehensive introduction to renal dialysis/hemodialysis technician education and consists of clinical and didactic instruction.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to hemo/renal dialysis theory, 2 in anatomy and physiology of cardiovascular system, 2 in anatomy and physiology of renal system, 2 in pathophysiology of cardiac and renal diseases, 8 in instrumental analysis in hemo/renal dialysis, 4 in clinical practicum in hemodialysis and 4 in clinical practicum in renal dialysis (9/85).

AR-0702-0006

UROLOGY PROCEDURES

Course Number: 300-F12.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 24 weeks (338 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide the knowledge and skills necessary to function as a urology technician in both clinics and operating rooms.

Instruction: Didactic, laboratory and clinical instruction in all phases of urological care including, anatomy and physiology, radiology, laboratory procedures, urological examinations and patient care. Didactic and laboratory instruction is followed by 16 week practicum.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in laboratory procedures in urology, 1 in anatomy/physiology in urology, 2 in urologic pharmacy/pharmacology, 4 in radiologic procedures in urology, 6 in physical assessment and diagnostic procedures in urology, and 2 in clinical practicum in urology (6/91).

AR-0702-0007

MEDICAL LABORATORY SPECIALIST ADVANCED

Course Number: 311-92B30.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 50 weeks (2049–2199 hours).

Exhibit Dates: 1/90–12/91.

Learning Outcomes: Upon completion of the course the student will be able to perform the techniques and procedures appropriate to a technical specialist and/or laboratory supervisor.

Instruction: Lectures and practical experience in medical laboratory supervision, equipment use, clinical chemistry, microbiology, parasitology, hematology, urinalysis, histopathology, and cytotechnology and immunology.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 30 semester hours in medical technology or 10 in biology or chemistry (11/89).

AR-0702-0011

CYTOLOGY SPECIALIST

Course Number: 311-92E20; 311-M2.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 50–52 weeks (1829–2058 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to process and prepare all types of cytology specimens, identify and characterize the degree of normality or abnormality of the cellular material examined (for all types of specimens), mark the abnormal cells for the pathologist examination, identify and review histologic specimens for quality control, demonstrate methods and knowledge of laboratory safety, organization and management.

Instruction: Includes lectures, demonstration, case study, laboratory and clinical practice. Topics covered include gynecologic and non-gynecologic body sites including: all organ systems, body cavities, bone and soft tissue tumors. This is an American Medical Association (CAHEA) accredited program.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours for field experience in introduction to cytology (including cytoprep), 3 for female genital tract benign, 4 for female genital tract malignant 2 for respiratory tract, 2 for gastrointestinal tract, 3 for central nervous system and effusion, 2 in urinary tract, 3 in fine needle aspiration cytology (including breast, lymph node, head and neck bone), 2 in research and 18 in clinical practicum (5/95).

AR-0702-0012

1. CARDIOVASCULAR SPECIALIST

2. CARDIOVASCULAR TECHNICIAN

Course Number: *Version 1:* 300-Y6. *Version 2:* 300-Y6.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* Phase 1, 21 weeks (844 hours); Phase 2, 36 weeks (1440 hours). *Version 2:* 52 weeks (1774 hours).

Exhibit Dates: *Version 1:* 1/95–Present. *Version 2:* 1/90–12/94.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to review and/or record patient history and supporting clinical data, perform appropriate procedures and record anatomical, pathological and/or physiological data for further diagnosis; understand the invasive cardiovascular principles of cardiac catheterization, coronary angiography and angioplasty; understand the noninvasive cardiovascular principles of echocardiography, phonocardiography, and electrocardiography; and understand the noninvasive peripheral vascular principles of Doppler ultrasound. *Version 2:* Upon completion of the course, the student will be able to review and/or record patient history and supporting clinical data, perform appropriate procedures and record anatomical, pathological and/or physiological data for further diagnosis; understand the invasive cardiovascular principles of cardiac catheterization, coronary angiography and angioplasty; understand the noninvasive cardiovascular principles of echocardiography, phonocardiography, and electrocardiography; and understand the noninvasive peripheral vascular principles of Doppler ultrasound.

Instruction: *Version 1:* This version is pending evaluation. Phase I is a combination of conference, demonstration and practical experience in cardiovascular disease and practice. Phase II offers clinical practice and internship in cardiovascular diagnosis, treatment and care in the medical center setting. *Version 2:* Phase I is a combination of conference, demonstration and practical experience in cardiovascular disease and practice. Phase II offers clinical practice and internship in cardiovascular diagnosis, treatment and care in the medical center setting.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy and physiology of coronary and pulmonary system, 8 in principles of radiography, 6 in pathophysiology of cardiopulmonary disease, 2 in pharmacology, 5 in noninvasive cardiology, 9 in invasive cardiology for Phase 1; 19 semester hours in clinical internship in cardiovascular technician for Phase 2 (3/90).

AR-0702-0013

MEDICAL LABORATORY SPECIALIST BASIC

Course Number: 311-92B10, B 311-0011**Location:** Academy of Health Sciences, Ft. Sam Houston, TX**Length:** 15 weeks (584-593 hours)**Exhibit Dates:** 1/90-12/94**Learning Outcomes:** Upon completion of the course, the student will be able to perform basic laboratory procedures in urinalysis, hematology, immunohematology, microbiology, and clinical chemistry.**Instruction:** Lectures and practical exercises in hematology, immunohematology, clinical chemistry, bacteriology, urinalysis, serology, and parasitology basic procedures.**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to medical laboratory technology, 3 in microbiology, 3 in clinical chemistry, 2 in hematology, 2 in immunohematology, and 1 in serology (1/94).**AR-0702-0014**SPECIAL FORCES MEDICAL SERGEANT ADVANCED
NONCOMMISSIONED OFFICER (NCO)**Course Number:** *Version 1:* 011-18D40.
Version 2: 011-18D40. *Version 3:* 011-18D40.**Location:** John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.**Length:** *Version 1:* 18-19 weeks (1051 hours). *Version 2:* 12 weeks (524-543 hours). *Version 3:* 12 weeks (524-543 hours).**Exhibit Dates:** *Version 1:* 10/94-Present. *Version 2:* 10/93-9/94. *Version 3:* 1/90-9/93.**Learning Outcomes:** *Version 1:* This version is pending evaluation. Upon completion of the course, the student will serve at an advanced level of leadership and technical training in areas such as resource management, communication operations, unconventional warfare planning, intelligence collection and processing, operational planning and techniques, and administration and medical-specific tasks. *Version 2:* Upon completion of the course, the student will serve at an advanced level of leadership and technical training in areas such as resource management, communication operations, unconventional warfare planning, intelligence collection and processing, operational planning and techniques, and administration and medical-specific tasks. *Version 3:* Upon completion of the course, the student will be able to serve in an advanced level of leadership and technical training such as resource management, communication, operations, unconventional warfare planning, intelligence collection and processing, operational planning and techniques, administration, and medical specific tasks including advanced cardiac life support tasks.**Instruction:** *Version 1:* This version is pending evaluation. The course includes lectures, demonstrations, practical exercises, and examinations in this career field, noncommissioned officer development, and medical specific subjects and tasks. *Version 2:* The course includes lectures, demonstrations, practical exercises, and examinations in this career field, noncommissioned officer development, and medical specific subjects and tasks. *Version 3:* Course includes lectures, demonstrations, practical exercises, and examinations in career management, communication, medical specific

tasks including advanced cardiac life support tasks.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, military studies, or leadership, and 3 in applied medical sciences. See AR-1404-0035 for common core credit (12/92). *Version 3:* In the lower-division baccalaureate/associate degree category, 1 semester hour in introduction to US foreign policy, 2 in advanced cardiac life support, and 3 in military science, military studies, or leadership. See AR-1404-0035 for common core credit (12/92).**Related Occupations:** 18D.**AR-0702-0015**SPECIAL FORCES MEDICAL SERGEANT ADVANCED
NONCOMMISSIONED OFFICER (NCO)
RESERVE COMPONENT PHASE 2**Course Number:** 011-18D40-RC.**Location:** John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.**Length:** 3 weeks (209 hours).**Exhibit Dates:** 9/93-Present.**Learning Outcomes:** Upon completion of the course, the student will be able to serve in a leadership and technical role, such as resource management, communication operations, unconventional warfare planning, intelligence collecting and processing, operational planning and techniques, administration, and medical-specific tasks including advanced cardiac life support tasks.**Instruction:** Course includes lectures, demonstrations, practical exercises, and examinations in career field, noncommissioned officer development, medical-specific tasks.**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, military studies, or leadership, and 3 in applied medical sciences (12/92).**Related Occupations:** 18D.**AR-0702-0016**

BLOOD DONOR CENTER OPERATIONS

Course Number: 311-M4.**Location:** Academy of Health Sciences, Ft. Sam Houston, TX.**Length:** 3 weeks (108 hours).**Exhibit Dates:** 10/90-Present.**Learning Outcomes:** Upon completion of the course, the student will be able to perform functions related to the preparation of blood products for storage and transfusion therapy; determine suitability of donors for donating blood; perform multiple phlebotomies using aseptic techniques; and perform appropriate procedures to produce transfusable units of red blood cells deglycerolized.**Instruction:** Topics covered include donor suitability factors, conditions affecting the safety of blood for transfusion, and procedures for providing usable blood components/products and producing transfusable units of red blood cells, plasma, and transfusable platelet concentrate.**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 4 semester hours in blood banking techniques (1/94).**AR-0702-0017**ARMY MEDICAL DEPARTMENT (AMEDD)
NONCOMMISSIONED OFFICER (NCO) BASIC
(92B)**Course Number:** 6-8 C40 (92B).**Location:** Academy of Health Sciences, Ft. Sam Houston, TX**Length:** 55 weeks (2253 hours).**Exhibit Dates:** 1/92-7/94.**Learning Outcomes:** Upon completion of the course, the student will be able to perform as a medical laboratory specialist including assuming such responsibilities as analysis of human specimens (clinical chemistry, hematology, immunology, immunohematology, bacteriology, mycology, and parasitology among others), and to manage the clinical laboratory.**Instruction:** Course covers general chemistry; clinical chemistry; hematology; immunology; immunohematology; bacteriology; parasitology; mycology; and clinical laboratory management. Methodologies include lecture, laboratory, group discussions, and significant clinical practice.**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 4 semester hours in general chemistry, 6 in hematology, 4 in immunology, 4 in immunohematology, 6 in clinical laboratory practicum, 6 in clinical chemistry, and 6 in bacteriology. See AR-1406-0090 for common core credit (8/93); in the upper-division baccalaureate category, 6 semester hours in clinical laboratory practicum, 4 in personnel supervision, 3 in clinical laboratory management, 2 in military science, 6 in clinical chemistry, 6 in bacteriology, 4 in mycology, and 4 in parasitology (8/93).**Related Occupations:** 92B.**AR-0702-0018**MEDICAL LABORATORY SPECIALIST (MLT) INITIAL
ENTRY TRAINING**Course Number:** 311-91K10.**Location:** Academy of Health Sciences, Ft. Sam Houston, TX.**Length:** Phase 1, 26 weeks (1170 hours); Phase 2, 26 weeks (1040 hours).**Exhibit Dates:** 11/94-Present.**Learning Outcomes:** Upon completion of the course, the student will be able to perform basic and advanced medical laboratory procedures; process blood for donation; and perform blood banking procedures.**Instruction:** Phase 1 of this course includes lecture, discussion, case presentation, demonstration, and laboratory practice in chemistry, serology, hematology, immunohematology, urinalysis, parasitology, microbiology and blood banking. Phase 2 is composed of supervised clinical practice at assigned clinical sites such as hospital laboratories.**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, Phase 1, 1 semester hour in urinalysis, 8 in hematology, 5 in general chemistry, 6 in clinical chemistry, 4 in parasitology, 3 in serology, 8 in microbiology, and 8 in blood bank. Phase 2, 16 semester hours in clinical practice (10/95).**AR-0702-0019**MEDICAL LABORATORY SPECIALIST (MLT)
ADVANCED**Course Number:** 311-91K30.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Phase 1, 26 weeks (1170 hours); Phase 2, 26 weeks (1040 hours).

Exhibit Dates: 11/94–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform basic and advanced medical laboratory procedures; process blood for donation; and perform blood banking procedures.

Instruction: Phase 1 of this course includes lecture, discussion, case presentation, demonstration, and laboratory practice in chemistry, serology, hematology, immunohematology, urinalysis, parasitology, microbiology and blood banking. Phase 2 is composed of supervised clinical practice at assigned clinical sites such as hospital laboratories.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, Phase 1, 1 semester hour in urinalysis, 8 in hematology, 5 in general chemistry, 6 in clinical chemistry, 4 in parasitology, 3 in serology, 8 in microbiology, and 8 in blood bank. Phase 2, 16 semester hours in clinical practice (10/95).

AR-0703-0010

PERIOPERATIVE NURSING

(Operating Room Nursing)

Course Number: 6F-66E.

Location: William Beaumont Medical Center, El Paso, TX; Madigan Medical Center, Tacoma, WA; Brooke Medical Center, Ft. Sam Houston, TX; Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 16 weeks (585-588 hours).

Exhibit Dates: 1/90–4/91.

Objectives: This course is designed to prepare junior Army Nurse Corps officers to function as entry-level nurses in the operating room.

Instruction: Classroom instruction and clinical demonstrations in principles of microbiology, sterilization, disinfection, sterilization and preparation of surgical supplies; operating room nursing and environmental control in hospital operating rooms; and the use of specialized equipment.

Credit Recommendation: In the graduate degree category, 3 semester hours in advanced surgical/operating room nursing, 4 in advanced operating room techniques/practicum (5/91).

Related Occupations: 66E; 66H; 66J.

AR-0703-0015

PRACTICAL NURSE

Course Number: *Version 1:* 300-91C20. *Version 2:* 300-91C20.

Location: *Version 1:* Womack Medical Center, Ft. Bragg, NC; Madigan Medical Center, Tacoma, WA; Fitzsimmons Medical Center, Aurora, CO; Dwight David Eisenhower Medical Center, Ft. Gordon, GA; William Beaumont Medical Center, El Paso, TX; Phase II, Brooke Medical Center, Ft. Sam Houston, TX; Academy of Health Sciences, Ft. Sam Houston, TX. *Version 2:* Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* Phase I, 6 weeks (140 hours); Phase II, 46 weeks (1570 hours). *Version 2:* Phase I, 6 weeks (270 hours); Phase II, 54 weeks.

Exhibit Dates: *Version 1:* 7/92–Present. *Version 2:* 1/90–6/92.

Learning Outcomes: *Version 1:* Upon completion of the Phase I of the course, the student

will be able to demonstrate theoretical knowledge of basic principles of microbiology, pharmacology, anatomy, and physiology, and preventive medicine; calculate medical dosages; and discuss legal/ethical aspects of practical nursing. Upon completion of Phase II, the student will be able to discuss basic communication skills; identify nursing implications of transcultural factors; identify principles of infection control; demonstrate basic nursing skills; demonstrate medication administration skills; identify nursing care for the pre/post-operative patient; develop nursing care plans using the nursing process; demonstrate theoretical knowledge of common diseases and their nursing implications including gerontology, pediatric and obstetrical conditions; and, in the clinical portion, administer nursing care to a selected group of patients in a variety of health care settings under the supervision of a registered nurse. *Version 2:* Upon completion of the Phase I, the student will be able to demonstrate a body of theoretical knowledge by written and oral examinations in preparation for clinical care of clients. In Phase II, the student will have the opportunity to implement the body of knowledge acquired in Phase I in administering basic nursing care to a selected group of patients in a variety of health care settings, under the supervision of as Registered Nurse. Upon completion, the graduate is eligible to take the State Board examination for licensure.

Instruction: *Version 1:* Phase I of this course covers microbiology; anatomy and physiology; nutrition; drug dosage calculations; preventive medicine; pharmacology; and personal/vocational adjustment. Methodology includes lectures and demonstrations. In Phase I, the course covers nursing fundamentals; common disease processes related to each body system; and nursing care for patients in a variety of settings. The course includes documentation of patient care, nursing process, medication administration, and patient assessment. Phase II covers clinical experience in providing patient care to a selected group of patients in a variety of health care settings, including specialty areas. Clinical practice is done under the supervision of a registered nurse. Methodology includes lectures, demonstrations, and clinical experiences. Graduates are eligible for the National Council Licensure Examination for Practical Nurses and the program is approved by the Board of Vocational Nurses for the state of Texas. *Version 2:* Upon completion of Phase I, the student will be able to demonstrate a body of theoretical knowledge by written and oral examinations in preparation for the clinical care of clients. In Phase II, the student will have the opportunity of implementing the body of knowledge acquired in Phase I by administering basic nursing care to a selected group of patients in a variety of health care settings under the supervision of a registered nurse. Upon completion, the student is eligible to take the state board examination for licensure.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, for Phase I, 1 semester hour in CPR/first aid, 1 in dosage calculation, 2 in anatomy and physiology, and 2 in vocational nursing history and legal issues; for Phase II, 3 semester hours in anatomy and physiology, 4 in fundamentals of nursing, 1 in nursing process, 2 in pharmacology, 4 in medical-surgical nursing theory, 2 in pediatric nursing, 2 in obstetric/newborn nursing theory, 1 in mental health

nursing and 10 in clinical practicum (8/93). *Version 2:* In the lower-division baccalaureate/associate degree category, 16 semester hours for Phase I to include 1 semester hour in medical emergencies/casualties, 2 in dosage calculations and pharmacology, 5 in anatomy and physiology, 2 in microbiology, 2 in nutrition, 4 in basic nursing care, and 14 in clinical practicum (for phase 2) (3/90).

Related Occupations: 91C.

AR-0703-0016

CRITICAL CARE NURSING

Course Number: 6F-F5.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 16 weeks (588-594 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to amplify the knowledge introduced in a basic baccalaureate program in nursing, and using the nursing process, demonstrate the knowledge and skills necessary for caring for a critically ill patient.

Instruction: Includes theory content as well as practical application in caring for patients with medical/surgical, neonatal pediatric, and surgical/trauma conditions.

Credit Recommendation: In the graduate degree category, 16 semester hours in critical care nursing (theory) for the course; 15 semester hours in clinical or practicum for critical care nursing for the practicum (7/93).

AR-0703-0017

1. RENAL DIALYSIS NURSE EDUCATION
2. RENAL DIALYSIS NURSE EDUCATION, PHASE 2 AND 3

Course Number: *Version 1:* 6F-F8. *Version 2:* 6F-F8.

Location: *Version 1:* Walter Reed Medical Center, Washington, DC. *Version 2:* Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 6 weeks (254 hours). *Version 2:* Phase 2, 6 weeks (197 hours); Phase 3, 12 weeks (433 hours).

Exhibit Dates: *Version 1:* 3/93–Present. *Version 2:* 1/90–2/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to implement the nursing process in caring for patients undergoing peritoneal dialysis, renal dialysis, or renal transplants; implements patient teaching plans; and supervise paraprofessionals in patient care. *Version 2:* Upon completion of the course the student will be able to implement the nursing process in caring for patients undergoing renal replacement therapy, and plan an educational program for paraprofessional personnel relating to the dialysis unit.

Instruction: *Version 1:* Lectures, guest speakers and self-paced instruction on the care for patients undergoing renal dialysis. Includes clinical experience in peritoneal and renal dialysis. Care of the renal transplant patient is included. Includes a self-study component on nephrology nursing. *Version 2:* Includes guest speakers, self-paced instruction care-planning, patient teaching plans, and videotapes. Clinical experience is provided in peritoneal and renal dialysis as well as renal transplants.

Credit Recommendation: *Version 1:* In the graduate degree category, 3 semester hours in fundamentals of nephrology nursing, 5 in

hemodialysis nursing theory, and 3 in clinical renal dialysis/transplant (10/95). *Version 2:* In the graduate degree category, 4 semester hours in practicum for Phase 2 (Phase 1 must be completed prior to Phase 2) and 8 in practicum for Phase 3 (Phase 1 and 2 must be completed prior to Phase 3) (4/88).

AR-0703-0018

PEDIATRIC NURSING

Course Number: *Version 1:* 6F-66D. *Version 2:* 6F-66D.

Location: *Version 1:* Tripler Medical Center, Honolulu, HI. *Version 2:* Fitzsimmons Medical Center, Aurora, CO.

Length: *Version 1:* 16 weeks (609-612 hours). *Version 2:* 16 weeks.

Exhibit Dates: *Version 1:* 6/93–Present. *Version 2:* 1/90–5/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to discuss legal/ethical issues of pediatric nursing; discuss growth and development from birth to adolescence; demonstrate pediatric advanced life support (PALS); demonstrate pediatric patient assessment; and demonstrate care of the neonatal and pediatric patient in a variety of clinical settings. *Version 2:* Upon completion of the course the student will be able to build upon the knowledge acquired in the area of pediatrics for the baccalaureate graduate and expand in depth and scope as pertains to the practice of pediatric nursing in an expanded role.

Instruction: *Version 1:* Course covers pediatric growth and development; pediatric life support; nursing process; neonatal care; pediatric care; and clinical experiences. Teaching methodologies include lecture, demonstration, and directed clinical experiences. *Version 2:* Includes lectures and demonstrations as well as practice of additional skills in the practitioner role. Emphasis on the nursing process as it relates to patient care and family interventions.

Credit Recommendation: *Version 1:* In the graduate degree category, 2 semester hours in pediatric assessment, 1 in pediatric advanced life support, 5 in clinical practicum, 1 in pediatric growth and development, 3 in neonatal nursing, and 4 in pediatric nursing (8/95). *Version 2:* In the graduate degree category, 15 semester hours in pediatric nursing for the course; 15 semester hours in clinical practicum (4/88).

AR-0703-0019

OPERATING ROOM NURSING FOR ARMY NURSE CORPS OFFICER (RESERVE COMPONENT)

Course Number: 6F-66E(RC).

Location: Medical Centers, Continental US; Fitzsimmons Medical Center, Aurora, CO; Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Phase I, 8 weeks (278 hours); Phase 2, 6 weeks (224 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will function as entry level practitioner in the surgical suite.

Instruction: Review of principles of anatomy, physiology, and microbiology. Clinical practicum, the major component, with conferences, seminars, and examinations where appropriate.

Credit Recommendation: In the graduate degree category, 2 semester hours in nursing theory for Phase I and 6 semester hours in

practicum for Phase II. **NOTE:** Must have completed Phase I prior to Phase II (8/93).

AR-0703-0020

NURSE PRACTITIONER ADULT MEDICAL-SURGICAL HEALTH CARE

Course Number: 6F-66H.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 22 weeks (746 hours).

Exhibit Dates: 1/90–1/93.

Learning Outcomes: Upon completion of the course the student will be able to implement the nursing process while serving as a primary health care provider to adults with selected medical conditions. Where applicable, refers patients to other members of the health team to insure comprehensive, as well as continuous care of the individual. Compares and contrasts the role of the nurse practitioner in civilian and military environments, and the variations in the law pertaining to the practice of nursing.

Instruction: Methodology of teaching includes lectures, conferences, demonstrations, and clinical practice. Review of anatomy, physiology, pathology as a base for preparation in development of such skills as completing a health history and techniques for screening of various normal/abnormal conditions in the realm of physical and psychosocial. Clinical experience provided in acute and chronic illnesses, with delivery of primary health care under the supervision of faculty or assigned medical doctor. Communication skills are developed with the interview process, problem oriented medical record, prescription writing and leadership training.

Credit Recommendation: In the graduate degree category, 10 semester hours in theory and 12 in clinical practicum (4/88).

AR-0703-0021

1. ARMY MEDICAL DEPARTMENT (AMEDD)
CLINICAL HEAD NURSE
2. ARMY MEDICAL DEPARTMENT OFFICER
CLINICAL HEAD NURSE

Course Number: *Version 1:* 6F-F3. *Version 2:* 6F-F3.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 2 weeks (88 hours). *Version 2:* 2 weeks (74-88 hours).

Exhibit Dates: *Version 1:* 9/94–Present. *Version 2:* 1/90–8/94.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to function in a leadership position, with emphasis on management of personnel and methods of evaluation. *Version 2:* Upon completion of the course, the student will be able to use the skills and administrative knowledge to function as a clinical level nurse. This version is pending evaluation.

Instruction: *Version 1:* In order to accomplish the outcome, the officer will develop a management plan to include current assignment policies; apply theories of adult learning; implement a plan for decision making process; develop a budget for the areas of personnel, supplies, equipment, and marketing; and apply the law as pertained to the practice of nursing. *Version 2:* Instruction includes lecture, discussion panel participation in managerial principles, communication issues, risk management, the law as pertains to the practice of nursing,

and use of standards of nursing care in developing criteria for monitoring and evaluating activities.

Credit Recommendation: *Version 1:* In the upper division baccalaureate category, 4 semester hours in nursing administration seminar (10/95). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in nursing administration (9/93).

AR-0703-0022

1. PRINCIPLES OF ADVANCED NURSING
ADMINISTRATION
2. PRINCIPLES OF ADVANCED NURSING
ADMINISTRATION FOR ARMY NURSING
CORPS OFFICERS

Course Number: *Version 1:* 6F-F2. *Version 2:* 6F-F2.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 2 weeks (89 hours). *Version 2:* 2 weeks (74 hours).

Exhibit Dates: *Version 1:* 5/94–Present. *Version 2:* 1/90–4/94.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to discuss major trends in health care reform; apply principles of financial and personnel management; apply principles of decision making and conflict resolution; and apply principles of organizational management to the health care delivery system. *Version 2:* Upon completion of the course, the student will be able to apply the knowledge and skills in management concepts and educational activities to function as a charge nurse in a medical facility.

Instruction: *Version 1:* Lecture and participatory learning experiences for leadership development of nurses in advanced management positions. Includes personnel and resource management, organizational theories and management, leadership, decision making, and conflict resolution. *Version 2:* Methods of instruction include lectures, discussions, and role playing in current trends in resource management, health care economics, ethics, and various styles of leadership.

Credit Recommendation: *Version 1:* In the graduate degree category, 1 semester hour in current issues/health care reform, 2 in introduction to organizational theories and management, and 3 in leadership/decision making (10/95). *Version 2:* In the upper-division baccalaureate category, 2 semester hours in nursing (11/90).

AR-0703-0023

OBSTETRICAL AND GYNECOLOGICAL NURSING

Course Number: *Version 1:* 6F-66G. *Version 2:* 6F-66G.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Tripler Medical Center, Honolulu, HI.

Length: *Version 1:* 16 weeks (582 hours). *Version 2:* 16 weeks (472-566 hours).

Exhibit Dates: *Version 1:* 6/93–Present. *Version 2:* 1/90–5/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to discuss legal and ethical issues in OB/GYN; demonstrate knowledge of anatomy and physiology, high risk factors, and complications of the childbearing woman and the newborn; conduct a prenatal examination including history; perform breast examination; implement a child-

birth course; perform duties of a circulating nurse in an operating room; conduct a well-woman gynecological examination; conduct physical assessment and CPR of the newborn; and develop nursing care plans. *Version 2:* Upon completion of the course, the student will be able to assume responsibility for the primary health care for women during childbearing and interconceptive periods. Such competency will reflect concern for the physical and psychosocial well-being of the childbearing woman and her family.

Instruction: *Version 1:* Course includes legal and ethical issues of OB/GYN nursing, anatomy and physiology of the reproductive system, childbearing and delivery, lactation, fetal monitoring, nutrition, high risk conditions, OB/GYN emergencies, gynecological problems, physical assessment, and clinical experience in inpatient and outpatient settings. Methodologies include lectures, conferences, discussions, practical exercises, and clinical practicum. *Version 2:* Lectures, discussions, examinations, and clinical demonstrations in assessment and care of the antepartum and postpartum patient, and bio-psycho-social aspects of childbearing, family planning, and patient/family counseling through the use of the nursing process.

Credit Recommendation: *Version 1:* In the graduate degree category, 2 semester hours in patient education, 5 in normal obstetrical nursing, 2 in gynecological nursing and family planning, 9 in clinical practicum (OB-GYN), 2 in physical assessment, 1 in neonatal nursing, 2 in high risk pregnancy (8/95). *Version 2:* In the graduate degree category, 2 semester hours in physical assessment, 2 in family planning, 2 in health education and counseling, 5 in normal obstetrical nursing, 1 in newborn care, 2 in high risk pregnancy, and 9 in clinic practicum (3/90).

AR-0703-0024

PRINCIPLES OF MILITARY PREVENTIVE MEDICINE (MC/VC/DC)

Course Number: 6A-F5.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 9 weeks (365 hours).

Exhibit Dates: 1/90-5/90.

Learning Outcomes: Upon completion of the course, the student will be able to serve as preventive medicine officer, public health veterinarian, or preventive dentist.

Instruction: This course includes lectures, discussions, and clinical practice in preventive medicine, environmental hygiene, infection control, epidemiology, public health, water quality, and communicable diseases.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in preventive medicine, 2 in environmental hygiene, 1 in infection control, 1 in epidemiology, 1 in public health, and 1 in water quality (3/90); in the graduate degree category, 2 semester hours in communicable diseases (3/90).

AR-0703-0025

SPECIAL FORCES MEDICAL SERGEANT

(Special Forces Medical Sergeant, Phases 1 and 3)

Course Number: *Version 1:* 011-18D30. *Version 2:* 011-18D30.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: *Version 1:* 24 weeks (1782 hours). *Version 2:* 24 weeks (1559 hours).

Exhibit Dates: *Version 1:* 10/91-Present. *Version 2:* 1/90-9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform advanced cardiac life support (ACLS) skills; will possess basic radiology skills; and will be able to perform general anesthesia and endotracheal intubation; will perform basic laboratory procedures and manage trauma; and will perform basic veterinary examinations and treatments. Includes common core of special operations and leadership subjects. *Version 2:* Upon completion of the course, the student will be able to perform advanced cardiac life support (ACLS) skills; basic radiology skills, general anesthesia, and endotracheal intubation; perform basic laboratory procedures, manage trauma, perform basic veterinary examinations and treatments. Course includes common core of special operations and leadership subjects.

Instruction: *Version 1:* Lectures, laboratories and demonstrations in advanced cardiac life support (ACLS), radiology, trauma management, anesthesia, central materials supply, laboratory examinations, veterinary procedures, anatomy, pharmacology, and records/reports. Common core subjects include air operation, survival, land navigation, combat and special. *Version 2:* Lectures, laboratories and demonstrations in advanced cardiac life support (ACLS), radiology, trauma management, anesthesia, central materials supply, laboratory examinations, veterinary procedures, and records/reports. Common core subjects include air operations, survival, land navigation, combat, and special operations and leadership.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in advanced cardiac life support (ACLS), 1 in applied basic radiological science, 6 in emergency medical technology nursing or applied medical science, 3 in applied veterinary science, 2 in medical laboratory technology or applied medical science and 3 in applied medical science (12/92). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in advanced cardiac life support (ACLS), 1 in applied basic radiological science, 5 in emergency medical technology, nursing, or applied medical science, 2 in applied veterinary science, 2 in medical laboratory technology or applied medical science, and 2 in applied medical science (12/92).

AR-0703-0026

1. COMBAT CASUALTY MANAGEMENT
2. COMBAT CASUALTY CARE

Course Number: *Version 1:* 6A-C4A. *Version 2:* 6AC4.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 1-2 weeks (71 hours). *Version 2:* 1-2 weeks (77-81 hours).

Exhibit Dates: *Version 1:* 9/92-Present. *Version 2:* 1/90-8/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student is expected to be able to function effectively in a combat zone and combat medical treatment facility; assess the war-time environment and health care delivery system; maximize the in-theater returns to

duty and/or evacuation of individuals. *Version 2:* Upon completion of the course, the student will be able to assess and manage the trauma victim; demonstrate patient assessment; establish patient management priorities; identify medical support required for various military operations; and identify medical implications for casualty treatment in nuclear, biological, and chemical agent environments.

Instruction: *Version 1:* Wound management and care is taught using conferences, practical exercises and demonstrations. The term wound is broadly interpreted, and is inclusive of injury from all types of war ordinance, as well as, snake bites, psychiatric disorders, dentistry and insect injury. *Version 2:* Covers advanced trauma life support (ATLS) patient assessment, triage, tri-service medical capabilities, nuclear, biological, and chemical (NBC) warfare, and environmental injuries. Methodologies include lecture, demonstrations, and field exercises.

Credit Recommendation: *Version 1:* In the graduate degree category, 3 semester hours in body wounds and 1 in field exercise (10/95). *Version 2:* In the graduate degree category, 2 semester hours in advanced trauma life support (8/93).

AR-0703-0027

CLINICAL LABORATORY OFFICER

Course Number: 6H-68F; 6H-71E67.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 50-53 weeks (1890-1914 hours).

Exhibit Dates: 2/92-Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise a clinical laboratory; monitor physical resources; plan and monitor budgets; manage personnel; supervise evaluations; and manage medical laboratory clinical services.

Instruction: Course covers management; microbiology; immunology; blood banking; urinalysis; clinical chemistry; hematology; coagulations; and phlebotomy and anatomic pathology. Methodology includes lectures, laboratory exercises, discussions, and clinical practice.

Credit Recommendation: In the upper-division baccalaureate category, 10 semester hours in microbiology, 3 in management, 6 in immunology, 8 in blood banking, 2 in urinalysis, 7 in clinical chemistry, 8 in hematology, and 2 in phlebotomy (7/95).

AR-0703-0028

PERIOPERATIVE NURSING

Course Number: *Version 1:* 6F-66E. *Version 2:* 6F-66E.

Location: Madigan Medical Center, Tacoma, WA; William Beaumont Medical Center, El Paso, TX; Brooke Medical Center, Ft. Sam Houston, TX; Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 16 weeks (586 hours). *Version 2:* 16 weeks (588 hours).

Exhibit Dates: *Version 1:* 7/93-Present. *Version 2:* 5/91-6/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to discuss sterilization and disinfection; process surgical supplies for sterilization; develop and implement patient care plans using the nursing process; perform duties of an operating room nurse in a field medical facility; identify envi-

environmental hazards in the operating room, and coordinate members of the operating room team. *Version 2:* Upon completion of the course, the student will be able to discuss sterilization and disinfection; process surgical supplies for sterilization; develop and implement patient care plans using the nursing process; perform duties of an operating room nurse in a field medical facility; identify potential safety hazards in the operating room; and coordinate members of the operating room team.

Instruction: *Version 1:* Course covers microbiology; sterilization; surgical supplies; perioperative nursing; environmental hazards; specialized equipment; specialty surgeries; and field nursing. Methods of instruction include lectures, practical exercises, and clinical experience. *Version 2:* Course covers microbiology; sterilization; surgical supplies; perioperative nursing; environmental hazards; specialized equipment; specialty surgeries; and field nursing.

Credit Recommendation: *Version 1:* In the graduate degree category, 4 semester hours in clinical practicum, 5 in perioperative nursing, and 3 in specialty perioperative nursing (8/94). *Version 2:* In the graduate degree category, 6 semester hours in clinical practicum, 5 in perioperative nursing, and 3 in specialty perioperative nursing (8/93).

AR-0704-0001

PHYSICAL THERAPY SPECIALIST

Course Number: 303-91J10; Phase 2, B-303-0051; Phase 1, B-303-A051.

Location: Medical Field Service School, Ft. Sam Houston, TX; Navy Hospitals, Continental US; Selected Hospitals, Continental US; Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Phase 1, 17 weeks (646 hours); Phase 2, 8-10 weeks (320-400 hours).

Exhibit Dates: 1/90-2/91.

Objectives: After 2/91 see AR-0704-0012. To provide qualified medical corpsmen with knowledge and skills in physical therapy techniques and to promote continuing education in the profession.

Instruction: Lectures and practical exercises in functional anatomy and physiology; human growth and development; basic principles and clinical application of physical modalities; ethical standards and proper techniques of handling and positioning patients; therapeutic exercises; development of patient therapy programs.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in functional anatomy and physiology, 3 in applied psychology, 13 in physical therapy principles and procedures, 10 in supervised clinical experience and 1 in disease pathology (3/91).

Related Occupations: 91A; 91J.

AR-0704-0004

OCCUPATIONAL THERAPY SPECIALIST

Course Number: 303-91L10.

Location: Selected Hospitals, Continental US; Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Phase I, 17 weeks (632 hours); 360 hours.

Exhibit Dates: 1/90-2/90.

Objectives: After 3/90 see AR-0704-0011. To train enlisted personnel in the knowledge of

physical and behavioral sciences, principles and concepts related to implementation of remedial, health maintenance, and preventive occupational therapy procedures.

Instruction: Lectures and practical exercises in anatomy and physiology, occupational therapy processes, psychology, and pathologic conditions as related to occupational therapy.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in functional anatomy and physiology, 3 in applied psychology, 12 in occupational therapy techniques, 9 in supervised clinical experience, 1 in disease pathology (3/90).

Related Occupations: 91L.

AR-0704-0008

RESPIRATORY SPECIALIST

Course Number: *Version 1:* 300-91V20. *Version 2:* 300-91V10.

Location: *Version 1:* Phase 1, Academy of Health Sciences, Ft. Sam Houston, TX; Phase 2, Naval School of Health Sciences Naval Hospital, San Diego, CA; Phase 2, Brooke Medical Center, Ft. Sam Houston, TX. *Version 2:* State Chest Hospital, San Antonio, TX; Wilford Hall, Lackland AFB, TX; Phase II, Academy of Health Sciences, Ft. Sam Houston, TX; Phase I, Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* Phase 1, 16 weeks (619 hours); Phase 2, 16 weeks (600 hours). *Version 2:* Phase I, 16 weeks (627 hours); Phase II, 16 weeks (550 hours).

Exhibit Dates: *Version 1:* 3/96-Present. *Version 2:* 1/90-2/96.

Learning Outcomes: *Version 1:* Upon completion of the course the student will be able to conduct procedures related to aerosol/humidity therapy, ventilation therapy, pulmonary function testing, infection control, cardiopulmonary drug administration and critical patient care performed under the supervision of a physician. *Version 2:* Upon completion of the course the student will be able to conduct procedures related to aerosol/humidity therapy, ventilation therapy, pulmonary function testing, infection control, cardiopulmonary drug administration and critical patient care performed under the supervision of a physician.

Instruction: *Version 1:* Lectures, demonstrations, and practical exercises in selected basic science courses related to respiratory care, including anatomy, respiration, physiology, pharmacology and microbiology, physical therapy, clinical medicine, and medical materiel management. *Version 2:* Lectures, demonstrations, and practical exercises in selected basic science courses related to respiratory care, including anatomy, respiration, physiology, pharmacology and microbiology, physical therapy, clinical medicine, and medical materiel management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy and physiology, 3 in general science, 3 in cardiopulmonary physiology, and 3 in clinical medicine for Phase; for Phase 2, 9 semester hours in respiratory care techniques and 9 in clinical experience (5/96). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy and physiology, 3 in general science, 3 in cardiopulmonary physiology, and 3 in clinical medicine for Phase I; for

Phase II, 9 semester hours in respiratory care techniques and 9 in clinical experience (4/88).

Related Occupations: 91V

AR-0704-0009

ORTHOPEDIC SPECIALIST

Course Number: *Version 1:* 304-91H10. *Version 2:* 304-91H10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* Phase 1, 6 weeks (227 hours); Phase II, 6 weeks (232 hours). *Version 2:* Phase 1, 6 weeks (209 hours); Phase 2, 6 weeks (232 hours).

Exhibit Dates: *Version 1:* 3/94-Present. *Version 2:* 1/90-2/94.

Learning Outcomes: *Version 1:* Upon completion of the course the student will be able to prepare patients for surgical procedures; assist the physician in minor surgical procedures; apply splints, casts, and traction; instruct patients regarding care; and maintain mechanical equipment in an orthopedic clinic and maintain appropriate medical records. *Version 2:* Upon completion of the course the student will be able to prepare patients for major surgical procedure, assist the physician in minor surgical procedures, instruct patients regarding care procedures, maintain mechanical equipment in an orthopedic clinic and maintain appropriate medical records.

Instruction: *Version 1:* Phase 1 includes lectures, discussions, demonstrations, and laboratory practice of musculo-skeletal anatomy and physiology; casting, splinting, traction, wound care; and related equipment. Phase 2 includes supervised clinical practice at designated hospitals. *Version 2:* Lectures and clinical experiences in anatomy and physiology and the principles of orthopedic surgery, including the preparation of patients for major surgical procedures and assisting the physician in minor surgical procedures; care and treatment of orthopedic patients to include giving proper instruction to patients such as care of casts and splints, proper crutch walking techniques and precautions; fabricating, modifying and applying plaster casts; applying casts and splints used in surgery; performing change of dressing, sterile scrubs and suture removal observing the principles of asepsis.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in musculo-skeletal anatomy and physiology, 4 in orthopedics and patient care, and 4 in orthopedic devices, materials, and methods for Phase 1; for Phase 2, 5 semester hours in clinical practice in orthopedics (10/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy, 1 in physiology, 4 in principles of orthopedics and patient care, 4 in orthopedic methods and materials for Phase 1. For Phase 2, 5 semester hours in practicum or clinical application of principles of orthopedics (4/88).

AR-0704-0010

ORTHOTIC SPECIALIST

Course Number: 304-42C10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 52 weeks (1698 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to take impressions using appropriate techniques and media; measure, design, fabricate and fit orthotics in accordance with prescriptions.

Instruction: Lecture, discussion, demonstration, conferences, shop, and clinical practice in the design, manufacture, fitting, and repair of orthotic devices including medical terminology, ethics, materials, and tools. This course includes extensive instruction in orthopedic anatomy, physiology, biomechanics and kinesiology.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy, 2 in physiology, 3 in kinesiology, 8 in orthotics, 3 in orthotic shop techniques, and 10 in clinical practice for Phase I; for Phase II, 16 semester hours in clinical practices (3/90).

AR-0704-0011

1. OCCUPATIONAL THERAPY SPECIALTY
2. OCCUPATIONAL THERAPY SPECIALIST
3. OCCUPATIONAL THERAPY SPECIALIST

Course Number: *Version 1:* 303-N3. *Version 2:* 303-91L10. *Version 3:* 303-91L10.

Location: *Version 1:* Phase 1, Academy of Health Sciences, Ft. Sam Houston, TX; Phase 2, for Navy, Naval Regional Medical Center, Portsmouth, VA; Phase 2, for Air Force, Wright-Patterson AFB, Ohio; Phase 2, for Air Force, Wilford Hall, Lackland AFB, TX. *Version 2:* Phase 1, Academy of Health Sciences, Ft. Sam Houston, TX; Phase 2, for Air Force, Wilford Hall, Lackland AFB, TX; Phase 2, for Army, Academy of Health Sciences, Ft. Sam Houston, TX. *Version 3:* Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* Phase 1, 17 weeks (701 hours); Phase 2, 12 weeks (480 hours). *Version 2:* Phase 1, 17 weeks (741 hours); Phase 2, 12 weeks (480 hours). *Version 3:* 25 weeks (994 hours).

Exhibit Dates: *Version 1:* 2/96–Present. *Version 2:* 11/93–1/96. *Version 3:* 3/90–10/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to select, collect, record, and communicate data that contributes to an occupational therapy treatment program; implement an occupational therapy treatment plan; administer occupational therapy treatments to patients; maintain effective interpersonal relationships with patients; and manage time, materials, and the treatment environment. *Version 2:* Upon completion of the course, the student will be able to select, collect, record, and communicate data that contributes to an occupational therapy treatment program; implement an occupational therapy treatment plan; administer occupational therapy treatments to patients; maintain effective interpersonal relationships with patients; and manage time, materials, and the treatment environment. *Version 3:* Before 2/90 see AR-0704-0004. Upon completion of the course, the student will be able to select, collect, record, and communicate data that contributes to an occupational therapy treatment program; establish, implement, and modify an occupational therapy treatment plan; maintain effective interpersonal relationships with patients; and manage time, materials, and the treatment environment.

Instruction: *Version 1:* Phase 1 covers human anatomy, physiology, and kinesiology;

occupational therapy processes; occupational therapy for psychiatric and physical dysfunction; therapeutic application, analysis, and adaptation of activities; and therapeutic recreation and reconditioning sports. Methodology includes lectures, discussion, demonstrations, examinations, field work observations, and field work experience in mental health and physical dysfunction. Phase 2 includes supervised clinical practice in active occupational therapy clinical departments. *Version 2:* Phase 1 covers human anatomy, physiology, and kinesiology; occupational therapy processes; occupational therapy for psychiatric and physical dysfunction; therapeutic application, analysis, and adaptation of activities; and therapeutic recreation and reconditioning sports. Methodology includes lectures, discussion, demonstrations, examinations, field work observations, and field work experience in mental health and physical dysfunction. Phase 2 includes supervised clinical practice in active occupational therapy clinical departments. *Version 3:* Covers human anatomy, physiology, and kinesiology; occupational therapy processes; occupational therapy for psychiatric and physical dysfunction; therapeutic application, analysis, and adaptation of activities; and therapeutic recreation and reconditioning sports. Methodology includes lectures, discussion, demonstrations, examinations, field work observations, and field work experience in mental health and physical dysfunction. Phase 2 includes supervised clinical practice in active occupational therapy clinical departments. *Version 3:* Covers human anatomy, physiology, and kinesiology; occupational therapy processes; occupational therapy for psychiatric and physical dysfunction; therapeutic application, analysis, and adaptation of activities; and therapeutic recreation and reconditioning sports. Methodology includes lectures, discussion, demonstrations, examinations, field work observations, and field work experience in mental health and physical dysfunction.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, Phase 1, 4 semester hours in functional human anatomy and physiology, 2 in pathology, 3 in applied psychology and 12 in occupational therapy techniques. Phase 2, 10 semester hours in clinical practice in occupational therapy (5/96). *Version 2:* In the lower-division baccalaureate/associate degree category, Phase 1, 4 semester hours in functional human anatomy and physiology, 2 in pathology, 3 in applied psychology and 12 in occupational therapy techniques. Phase 2, 10 semester hours in clinical practice in occupational therapy (10/95). *Version 3:* In the lower-division baccalaureate/associate degree category, 4 semester hours in anatomy and physiology, 12 in occupational therapy techniques, 3 in applied psychology, 1 in disease pathology for Phase I. For phase II, 9 semester hours in supervised clinical experience (8/93).

Related Occupations: 91L.

AR-0704-0012

1. PHYSICAL THERAPY SPECIALTY
2. PHYSICAL THERAPY SPECIALIST
3. PHYSICAL THERAPY SPECIALIST

Course Number: *Version 1:* 303-N9. *Version 2:* 303-N9. *Version 3:* B-303-A051; B-303-0051; 303-91J10.

Location: *Version 1:* Phase 1, Academy of Health Sciences, Ft. Sam Houston, TX; Phase 2, Civilian/Military Medical Facilities, Continental, US; Phase 2, Naval Regional Medical Centers, Continental, US. *Version 2:* Academy of Health Sciences, Ft. Sam Houston, TX. *Version 3:* Selected Hospitals, Continental US; Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* Phase 1, 17 weeks (667 hours); Phase 2, 8-10 weeks (400 hours). *Version 2:* Phase 1, 17 weeks (667 hours); Phase 2, 8-10 weeks (400 hours). *Version 3:* Phase I, 17

weeks (685 hours); Phase II, 8-10 weeks (320-400 hours).

Exhibit Dates: *Version 1:* 2/96–Present. *Version 2:* 1/95–1/96. *Version 3:* 3/91–12/94.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform the duties of a physical therapy technician (under supervision) including applying therapeutic modalities, instructing and guiding patients in specific exercises, and giving patient care information to other providers. *Version 2:* Upon completion of the course, the student will be able to perform the duties of a physical therapy technician (under supervision) including applying therapeutic modalities, instructing and guiding patients in specific exercises, and giving patient care information to other providers. *Version 3:* Before 3/91 see AR-0704-0001. Upon completion of the course, the student will be able to perform the duties of a physical therapy technician (under direction) including applying therapeutic modalities, instructing and guiding patients in specific exercises, and conveying patient care information to other health care providers.

Instruction: *Version 1:* Lectures and practical exercises in functional anatomy and physiology; human growth and development; basic principles and clinical application of physical modalities; ethical standards and proper techniques in handling and positioning patients; therapeutic exercises; and development of patient therapy programs. Army and Coast Guard personnel attend a 10-week Phase 2; Navy personnel attend an 8-week Phase 2 at Naval facilities. Both are on-the-job in the clinical environment. *Version 2:* Lectures and practical exercises in functional anatomy and physiology; human growth and development; basic principles and clinical application of physical modalities; ethical standards and proper techniques in handling and positioning patients; therapeutic exercises; and development of patient therapy programs. Army and Coast Guard personnel attend a 10-week Phase 2; Navy personnel attend an 8-week Phase 2 at Naval facilities. Both are on-the-job in the clinical environment. *Version 3:* Lectures and practical exercises in functional anatomy and physiology; human growth and development; basic principles and clinical application of physical modalities; ethical standards and proper techniques in handling and positioning patients; therapeutic exercises; and development of patient therapy programs. Army and Coast Guard personnel attend a 10-week Phase II; Navy personnel attend an 8-week Phase II.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, Phase 1, 6 semester hours in functional anatomy and physiology, 3 in applied psychology, 2 in principles of physical therapy, 10 in rehabilitative techniques, and 2 in pathology. Phase 2, 10 semester hours in clinical practice (5/96). *Version 2:* In the lower-division baccalaureate/associate degree category, Phase 1, 6 semester hours in functional anatomy and physiology, 3 in applied psychology, 2 in principles of physical therapy, 10 in rehabilitative techniques, and 2 in pathology. Phase 2, 10 semester hours in clinical practice (10/95). *Version 3:* In the lower-division baccalaureate/associate degree category, 6 semester hours in functional anatomy and physiology, 3 in applied psychology, 13 in physical therapy principles and procedures, and 1 in disease pathology for completion of Phase I; for Phase

II, 10 semester hours in supervised clinical experience (8/93).

Related Occupations: 91J

AR-0705-0001

RADIOLOGY SPECIALIST

(X-Ray Specialist)
(Radiographic Procedures Basic)
(X-Ray Procedures Basic)

Course Number: 313-91P10.

Location: Selected MEDACS, MEDCENS, Continental US, Academy of Health Sciences, Ft. Sam Houston, TX

Length: Phase I, 20 weeks (802 hours); Phase II, 22 weeks (880 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide enlisted personnel with a working knowledge of fundamental X-ray clinic procedures.

Instruction: Lectures and practical experience in the fundamentals of X-ray clinic operations and procedures, including applied anatomy and physiology, manual and automatic X-ray film processing, equipment operation and maintenance, sterile techniques and radiation safety measures, and diagnostic radiograph production.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in medical terminology, 4 in anatomy and physiology, 1 in radiographic exposure, 2 in radiographic equipment, 1 in radiographic film processing, 3 in radiation physics, 1 in radiation biology, 1 in radiation protection, 6 in radiographic procedures, 1 in quality assurance, 1 in medical ethics, 1 in computer literacy, and, for Phase II, 8 in clinical practicum. Both phases must be completed (12/93).

Related Occupations: 91P.

AR-0705-0003

RADIOLOGICAL SAFETY

Course Number: 7K-F3.

Location: Chemical School, Ft. McClellan, AL; Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 3 weeks (112-120 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide officer, enlisted, and civilian personnel with basic instruction in radiological safety.

Instruction: Conferences, case studies, and practical exercises in radiological safety principles, including storage, handling, transportation, disposal, reporting, control, and general safety for radioisotopes, neutron sources, microwave, laser, and machine-produced radiation.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principles of radiological safety (6/87).

Related Occupations: 214E; 214G; 222B; 223B; 223D; 224B; 241F; 251B; 251D.

AR-0705-0004

RADIOLOGY NONCOMMISSIONED OFFICER (NCO) MANAGEMENT

Course Number: 313-F1.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 1-2 weeks (60 hours).

Exhibit Dates: 1/90–3/94.

Learning Outcomes: After 3/94 see AR-0705-0011. To provide noncommissioned officer management training for personnel assigned to management positions in a department of radiology.

Instruction: Areas of instruction include administrative procedures; supervision and performance of supply and maintenance procedures; implementation of Army quality assurance program; methods of improving radiological health care delivery by application of current techniques; planning organization and operation of departments of radiology in the US and overseas; principles in unit and/or patient administration and personnel management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in radiology management (9/85).

AR-0705-0005

MEDICAL X-RAY SURVEY TECHNIQUES

Course Number: 6H-F18/323-F18; 6H-F18/322-F18.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (84-90 hours).

Exhibit Dates: 1/90–Present.

Objectives: Provides students with basic knowledge and techniques required to evaluate potential hazards from medical diagnostic radiation exposure related to federal safety standards.

Instruction: Units of instruction include principles of X-ray production, overview of diagnostic procedures, utilization of survey instruments, biological effects of radiation, and quality assurance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in radiation safety (8/95).

AR-0705-0007

POLYPHASE X-RAY SYSTEMS

Course Number: 4B-F5/198-F5.

Location: Equipment and Optical School, Aurora, CO.

Length: 3 weeks (2-116 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide warrant officers and enlisted personnel training on polyphase X-ray systems with emphasis on operation, maintenance, and calibration.

Instruction: A study of operating procedures and purpose of several X-ray systems. Includes use of manufacturer's literature in operator calibration and maintenance. Practical experiences in diagnosis and repair of malfunctioning X-ray equipment.

Credit Recommendation: In the vocational certificate category, 3 semester hours in X-ray equipment operation (9/85).

AR-0705-0008

BRH COMPLIANCE TESTING

Course Number: 4B-F6/198-F6.

Location: Equipment and Optical School, Aurora, CO.

Length: 2 weeks (67-76 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide warrant officers and enlisted personnel training on the Radiation

Control Health and Safety Act of 1968 with particular emphasis on compliance testing procedures.

Instruction: Student learns to perform tests, measurements, and adjustments necessary to keep X-ray equipment within government guidelines for radiation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in X-ray machine calibration (9/85).

AR-0705-0009

1. HEALTH PHYSICS SPECIALIST

2. RADIATION SAFETY SPECIALIST

Course Number: Version 1: 322-N4; 311-91X20; 322-91X20. Version 2: 311-91X20; 322-91X20.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Version 1: 12 weeks (400-506 hours). Version 2: 12 weeks (400-506 hours).

Exhibit Dates: Version 1: 6/90–Present. Version 2: 1/90–5/90.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to apply the knowledge of health physics to assess radiation hazards; perform diagnostic X-ray compliance and radiation safety surveys; process radioactive waste for storage or shipment; select and utilize analytical laboratory equipment; and perform health physics tasks necessary for radionuclide therapy. Version 2: Upon completion of the course, the student will be able to conduct radiation surveys of nuclear medicine clinics, radioisotope laboratories, and medical X-ray machines; inspect incoming radioisotope shipments; dispose of radioactive waste; assist in maintaining acceptable radiation procedures; and assist in evaluating directed energy hazards.

Instruction: Version 1: Covers mathematics, basic physics, radiation physics, radiation materials, medical X-ray survey techniques, and personnel dosimetry. Lectures, demonstrations, and laboratory exercises. Version 2: Lectures, conferences, demonstrations, and discussions in physical science, radiation detection, measurement, dosimetry, regulatory requirements, radiation and the environment, and medical X-ray survey procedures.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in radiologic techniques, 3 in physical science, and 3 in physical science laboratory (7/95). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of physical sciences, 3 in physical sciences laboratory, and 3 in X-ray survey techniques (4/88).

AR-0705-0010

SPECIAL OPERATIONS MEDICAL SERGEANT PHASE 2A

Course Number: 011-18D30.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 21 weeks (854 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to assume medical duties and responsibilities including assessment and management of specified surgical emergencies in field conditions, patient management, administration of local anesthetic

sia for dental conditions, dosage calculations and administration of medicinal agents.

Instruction: Includes lectures, laboratories, and clinical training in the areas of anatomy, physiology, dental sciences, psychiatry, physical therapy, medicine, nursing, and field medical service.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introductory medical laboratory procedures, and credit in nursing or physician assisting on the basis of institutional evaluation (4/88); in the upper-division baccalaureate category, 3 semester hours in physiology and hygiene, 2 in medical laboratory procedures (4/88).

Related Occupations: 18D.

AR-0705-0011

RADIOLOGY NONCOMMISSIONED OFFICER (NCO)
MANAGEMENT

Course Number: 313-F1.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 1-2 weeks (65 hours).

Exhibit Dates: 4/94–Present.

Learning Outcomes: Before 4/94 see AR-0705-0004. Upon completion of the course, the student will be able to identify the basic principles of administration and management and manage a radiology department.

Instruction: Areas of instruction include administrative procedures; supervision and performance of supply and maintenance procedures; implementation of Army quality assurance program; methods of improving radiological health care delivery by application of current techniques; planning organization and operation of departments of radiology in the US and overseas; and principles in unit and/or patient administration and personnel management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in radiology department administration/management (10/95).

AR-0706-0002

EYE SPECIALIST

Course Number: 300-91Y10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 13 weeks (474-476 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to provide full assistance to ophthalmologists and optometrists in military eye clinics and field hospitals and in combat units.

Instruction: Phase I of the course is conducted through conferences, demonstrations, and lectures emphasizing principles of ophthalmology and optometry including routine diagnostic medications and minor repairs to spectacles; Phase II is a clinical practicum in ophthalmology and optometry.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, for Phase I, 3 semester hours in principles of ophthalmology, 2 in principles of optometry, and 1 in anatomy and physiology; for Phase II, 4 semester hours in ophthalmology practicum and 4 in optometry practicum. Both phases must be completed (2/94).

Related Occupations: 91Y.

AR-0707-0010

ARMY MEDICAL DEPARTMENT (AMEDD) OFFICER
BASIC

Course Number: 6-8-C20 (MSC/WO).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 8-9 weeks (355 hours).

Exhibit Dates: 1/90–7/90.

Objectives: To train entry level commissioned medical service corps officers and warrant officers in military management skills.

Instruction: Instruction primarily informs the student of military management procedures with a specific health-related unit in industrial/occupational hygiene related to handling of hazardous material.

Credit Recommendation: In the vocational certificate category, 1 semester hour in basic EMS first aid; in the upper-division baccalaureate category, 3 semester hours in industrial/occupational hygiene in hazardous materials (9/85); in the upper-division baccalaureate category, 3 semester hours in industrial/occupational hygiene in hazardous materials (9/85).

AR-0707-0011

BASIC ENVIRONMENTAL STAFF
(Basic Environmental Coordinator's)

Course Number: ALMC-BE.

Location: Army Logistics Management Center, Ft. Lee, VA; Army Logistics Management College, Ft. Lee, VA.

Length: 2 weeks (67-76 hours).

Exhibit Dates: 1/90–Present.

Objectives: To teach environmental staff personnel the preparation and evaluation of reports on the effects of military actions on environmental pollution and to present an overview of current and relevant statutory and regulatory requirements of the environmental coordinator.

Instruction: Lecture conference and case method instruction in the basic concepts of ecology, pollution abatement, environmental regulations, environmental management considerations, and the preparation of environmental documentation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in environmental management (5/90).

AR-0707-0014

PREVENTIVE MEDICINE PROGRAM MANAGEMENT

Course Number: Version 1: 6A-F6. Version 2: 6A-F6. Version 3: 6A-F6.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Version 1: 2 weeks (70 hours). Version 2: 2 weeks (71 hours). Version 3: 2 weeks (71 hours).

Exhibit Dates: Version 1: 11/93–Present. Version 2: 10/90–10/93. Version 3: 1/90–9/90.

Learning Outcomes: Version 1: This version is pending evaluation. Upon completion of the course the student will be able to apply acquired management skills and problem solving in the preventive medicine area. Version 2: Upon completion of the course the student will be able to apply acquired management skills and problem solving in the preventive medicine area. Version 3: Upon completion of the course the student will be able to apply acquired man-

agement skills and problem solving in the preventive medicine area.

Instruction: Version 1: This version is pending evaluation. Covers topics in management and leadership related to functional operation and coordination in the preventive medicine services. Methodology includes conference, case study and discussion. Version 2: Covers topics in management and leadership related to functional operation and coordination in the preventive medicine services. Methodology includes conference, case study and discussion. Version 3: Conferences and practical exercises in manpower and resource management, current issues in preventive medicine, and leadership.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the upper-division baccalaureate category, 2 semester hours in organizational management (8/93). Version 3: In the upper-division baccalaureate category, 2 semester hours in business management and organization (4/88).

AR-0707-0015

1. SEXUALLY TRANSMITTED AND OTHER COMMUNICABLE DISEASES INTERVENTION
2. SEXUALLY TRANSMITTED DISEASES INTERVENTION
(Human Immunodeficiency Virus (HIV)/ Sexually Transmitted Diseases (STD) Intervention)
3. SEXUALLY TRANSMITTED DISEASES INTERVENTION
(Human Immunodeficiency Virus (HIV)/ Sexually Transmitted Diseases (STD) Intervention)

Course Number: Version 1: 6H-F9/322-F9. Version 2: 6H-F9/322-F9. Version 3: 6H-F9/323-F9.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Version 1: 2 weeks (83 hours). Version 2: 2 weeks (69-83 hours). Version 3: 2 weeks (83-69 hours).

Exhibit Dates: Version 1: 1/95–Present. Version 2: 3/93–12/94. Version 3: 1/90–2/93.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to conduct a sexual history, conduct contact interviews and counseling, conduct contact tracing, and conduct STD education programs. Version 2: Upon completion of the course, the student will be able to conduct a sexual history, conduct contact interviews and counseling, conduct contact tracing, and conduct STD education programs. Version 3: Upon completion of the course, the student will be able to function as sexually transmitted disease intervention specialist taking a major role in the implementation and operation of programs aimed at the prevention and control of sexually transmitted diseases including the human immunodeficiency virus (HIV).

Instruction: Version 1: Covers case management, STD health education, interviewing, counseling, field investigations, HIV infections, sexual mores and practices. Methodologies include lecture, discussion, and audio visuals. Version 2: Covers case management, STD health education, interviewing, counseling, field investigations, HIV infections, sexual mores and practices. Methodologies include lectures and audio visuals. Version 3: This course includes lecture, discussion, and clinical practice. Topics covered include the basic

pathology and epidemiology of all of the major STDs; case management, medical and sexual history, interviewing, counseling, reporting requirements, specimen collection, and microscopy techniques.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in sexually transmitted diseases, case management, and education (12/95). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in sexually transmitted diseases/case management and education (8/93). *Version 3:* In the upper-division baccalaureate category, 4 semester hours in sexually transmitted disease (3/90).

AR-0707-0016

PREVENTIVE MEDICINE SPECIALIST

Course Number: *Version 1:* 322-91S10. *Version 2:* 322-91S10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 15 weeks (574 hours). *Version 2:* 15 weeks (624 hours).

Exhibit Dates: *Version 1:* 10/91–Present. *Version 2:* 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to apply the principles of prevention medicine to the control of environmental factors affecting the health and well being of personnel; assess and maintain sanitary conditions; monitor occupational health and safety; assess community health problems; and monitor entomological conditions. *Version 2:* Upon completion of the course, the student will understand the principles of sanitary science and disease control, understand the fundamentals of environmental science, including occupational safety and health, and radiological and chemical protection, and understand advanced concepts of entomological research and practice. Student will be able to apply the principles of environmental health to the control of those environmental factors affecting the health and well being of personnel in military areas.

Instruction: *Version 1:* Covers sanitary and waste water systems, occupational and industrial hygiene, radiological and chemical protection, community health practices, health promotion and disease prevention, and medical entomology. Methodology includes lectures, demonstrations, and practical exercises. *Version 2:* Conferences, lectures, demonstrations, and practical exercises in the identification of sanitary deficiencies in water supply and waste water systems; inspection of and discrepancies in food service facilities; identification of hazards relating to the work environment in industrial, technical, and training areas; identification, collection, preservation, and shipment of medically important arthropods and rodents; selection, safe handling, mixing, allocation and disposal of pesticides to include pest control procedures; performance of environmental health surveys; identification of potential health hazards in facilities producing ionizing and nonionizing radiation; description of disease chain of transmission; and the compilation of medical statistical data.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 4 semester hours in issues in public health, 4 in occupational health and safety, 7 in medical entomology, and 3 in community health practice (10/93). *Version 2:* In the lower-division

baccalaureate/associate degree category, 4 semester hours in sanitary science and disease control, 19 semester hours in environmental science of public health (3/90). In the upper-division baccalaureate category, 7 semester hours in advanced zoology/entomology (3/90).

Related Occupations: 91S.

AR-0707-0017

PREVENTIVE MEDICINE SPECIALIST RESERVE (COMPOSITE (NONRESIDENT/RESIDENT) PHASE 2)

Course Number: 322-91S10-RC

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (71-85 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will understand the fundamentals of sanitation of food services, water analysis, field waste management, and rodent and pest control.

Instruction: Combination of conference, demonstration, and practical experience in sanitary and environmental science. Credit is based on Phase II only.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in community health and sanitary science, and 3 in medical entomology (4/94).

Related Occupations: 91S.

AR-0707-0018

BASIC INDUSTRIAL HYGIENE TECHNICIAN

Course Number: 6H-F11/323-F11; 6H-F11/322-F11.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (79 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to teach basic industrial hygiene techniques involved in the recognition, evaluation and control of occupational health hazards.

Instruction: Methods of instruction include lectures, problem solving, calibrations, testing and measurements. Variety of topics include industrial technology, hazard communication and evaluation, occupational diseases, direct and indirect air sampling instruments, respiratory protection, industrial ventilation, current trends in industrial hygiene, IH survey techniques, equipment calibration, utilization and storage, health hazard information module (HHIM), hazards associated with chemical reports, and ergonomic stress in the workshop.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in industrial hygiene (7/94).

AR-0707-0019

1. ARMY MEDICAL DEPARTMENT (AMEDD)
OFFICERS BASIC, PHASES 1 AND 2
2. ARMY MEDICAL DEPARTMENT (AMEDD)
OFFICER BASIC, PHASE 1 AND PHASE 2

Course Number: *Version 1:* 6-8-C20. *Version 2:* 6-8-C20.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 9-13 weeks (385-546 hours). *Version 2:* 9-14 weeks (154-347 hours).

Exhibit Dates: *Version 1:* 10/94–Present. *Version 2:* 8/90–9/94.

Learning Outcomes: *Version 1:* The course consists of a preparatory phase, a common core, and subject specific tracks. Upon completion of the preparatory phase, the student will be able to discuss the fundamentals of the Uniform Code of Military Justice; describe the mission, function, and structure of the Army and the Department of Defense; discuss the principles of war and military history; discuss basic principles of military leadership and protocol, and implement basic first aid principles and nuclear, biological, and chemical protective measures. Upon completion of the common core, the student will be able to apply basic principles of health care administration to include budgetary, resource management, and the health care delivery systems; discuss legal issues including military justice, standards of conduct, tort liability, the Federal Tort Claims Act, Geneva Convention and Code and Conduct, the Freedom of Information Act and the Privacy Act; discuss the medical and dental health care system in the Army; discuss principles of military science to include command and staff functions, combat health support, uniforms, drills and ceremonies; discuss principles of organizational management, riot management/assessment, team building, and EEO; and participate in field experiences. Those in the nursing track will be able to discuss health care concepts and management philosophies to include ethics, resource management, workload management, labor relations, personnel issues, and quality improvement related to nursing; and to identify career planning strategies to include empowerment, coping strategies, stress management, team building, and mentorship for nurses. Those in the dental corps track will be able to discuss dentistry field operations including the role of dental enlisted personnel and discuss dental care concepts including dental quality assurance, dental records, and preventive dentistry programs. Those in the medical corps track will be able to discuss the military and medical roles/responsibilities of a brigade level medical officer and discuss selected diseases of military importance. Those in the medical service corps platoon leader track will be able to discuss the roles and responsibilities of field medical support operations and discuss principles of health services planning, operations, training, and security. Those in the clinical support services laboratory track will be able to discuss the roles and responsibilities of laboratory professional in the military and in warfare situations and to discuss issues related to laboratory science to include blood bank/donor center, biological warfare, OSHA, laboratory safety, CLIP/CLIA, laboratory management, and quality assurance. Those in the audiology track will be able to supervise a hearing conservation program perform patient care in ENT clinics and audiology clinic to include audiometric testing and use of prosthetics; and supervise an audiology clinic. Those in the environmental science/engineering track will be able to identify arthropods, insects, and other animals of military importance; discuss principles of water quality, water supply, food service sanitation, water microbiology, water chemistry, air pollution, industrial hygiene, hazardous waste management and medical water management, foodborne illness, pesticide handling, preventive medicine in disasters, and the medical effects of lasers, microwaves, and directed

energy. Those in the medical service corps/NBC will be able to discuss basic principles of radiation of various types; operate various equipment to measure radiation of a number of types; discuss principles of radiation safety to include shielding, packaging of radioactive waste, contamination control procedures, and discuss biological effects of radiation exposure. Those in the medical service corps track will be able to discuss combat stress control measures; discuss programs to support the family and individual to include family advocacy, suicide prevention/psychological autopsy, and exceptional family members; and discuss principles of behavioral science administration and staff supervision. Those in the medical service corps/pharmacy track will be able to discuss the role and responsibilities of the pharmacist in the military; discuss principles of sterile products management; and discuss operations of inpatient and outpatient pharmacy service. Those in the optometry track will be able to discuss the roles and responsibilities of the optometrist in the military; perform optometry service in an optometry clinic; and serve as a division optometrist. Those in the medical service corps/occupational therapy track will be able to discuss the roles and responsibilities of an occupational therapist in the military. Those in the medical service corps/physical therapy track will be able to discuss the roles and responsibilities of a physical therapist in the military. Those in the medical service corps/dietitian track will be able to discuss the roles and responsibilities of the dietitian in the military. Those in the medical service corps/physician assistant track will be able to discuss the roles and responsibilities of the physician assistant in the military discuss principles of field sanitation and industrial toxicology; and discuss preventive medical conditions with special significance to the military. And those in the veterinary corps track will be able to discuss the roles and responsibilities of the veterinary corps in the military and to discuss current issues and methods of food technology, sanitation, inspection, and animal care. *Version 2:* Upon completion of the core curriculum, Phase 1, the student will be able to discuss the structure and functions of the Army health care system; discuss the basic principles of biomedical supply and Army medical records, personnel management, and medical legal issues; identify the role of Army medical department personnel; discuss the organization of the Army, medical military history, and combat medical issues; and discuss preventive medicine issues, including sexually transmitted diseases, AIDS, NBC, radiation, and entomology. Those students in the Veterinary track will be able to inspect poultry, beef, pork, dairy, fishery, fresh fruit and vegetables, eggs, and other food products; inspect food establishments; discuss the principles of animal disease prevention and control; and discuss the role of the veterinary service in the Army. Those in the Dental track will be able to discuss the role of dental science personnel in the military; discuss the organization of the Army dental care system; and discuss the use and management of dental health records. Those in the Pharmacy track will be able to discuss the pharmacy service operations in the Army; prepare sterile products; and perform pharmacist duties using military procedures. Those student who are in the Nursing track will be able to perform basic trauma life support; discuss issues of quality assurance; complete Army documenta-

tion of the nursing process; and discuss work load issues. Those in the Military Science track will be able to discuss equipment maintenance issues; demonstrate emergency medical care, including heat and cold injuries, chest injuries, head injuries, splinting/bandaging, fractures, shock, hemorrhage, and airway obstruction. Students in the Behavioral Science track will be able to discuss the role of the behavioral science professional in crisis intervention, in disaster, in combat, and in terrorism situations; identify components of Army programs in behavioral science to include the alcohol and drug programs, family advocacy program, and exceptional family member program. Those in the Preventive Medicine (68B) track will be able to discuss the principles of radiation protection, measurements, and waste management; discuss biological effects of radiation; and discuss regulatory issues of radiation sources and radiographic equipment. Those in the Preventive Medicine track (68F, 68N, 68P) will be able to inspect a food service facility; discuss sanitation and testing of water supply, swimming pools, and natural bathing areas; identify responsibilities in environmental surveillance; and describe the role of preventive medicine in the Army. Students in the Optometry track will be able to discuss the role of the optometrist in the Army; and discuss management responsibilities. Those in the Medicine and Surgery track will be able to discuss the role of the medical officer in the Army; discuss the medical training programs for Army personnel; identify medical implications of combat and of chemical warfare; and discuss management of sick call. Those in the Human Resources Management track will be able to discuss nutrition care in the Army hospital; participate in the medical field feeding exercise; and utilize the Army's computerized food service system. Those in the Laboratory Science track will be able to discuss the curriculum of medical laboratory specialists; and to identify combat laboratory materials. Those students in the Audiology track will be able to demonstrate use of the evaluation automated registry system; and they will be able to identify the role of audiology in the Army. Students will complete only one track.

Instruction: *Version 1:* This course is divided into three modules. The preparatory and common core are completed by all, who then attend specific tracks. Lectures, practical exercises, and field exercises are included in the program. The preparatory module is for those students who have no prior military experiences. The common core provide initial training in the Army medical and dental health care systems, health care operations, and deployable skills. The track modules provide specialized content related to the health care profession. Only one track is completed by the student. Some track include clinical experience as well as field training exercises. *Version 2:* Phase 1 (Core) of this course covers the Army medical dental care system, biomedical equipment management, manpower management, medical legal issues, personnel management, roles of the army medical department personnel, Army organization, medical military history, combat medical issues, and preventive medicine. All students are provided with lectures, conferences, and practical exercises in the core (Phase 1) materials, then progress to specialty tracks. The Veterinary track covers inspection of poultry, beef, pork, dairy and fishery products, animal disease control, mission of veterinary

services in the Army, personnel management, quality assurance, and procurement and storage of fresh fruit and vegetables. The Dental track covers dental corps organization, and the roles and responsibilities of dental personnel as well as the dental health record. The Pharmacy track covers organization of pharmacy service, pharmacy supply procedures, hyperalimentation, sterile products, personnel management, computerization of the pharmacy, quality assurance, and controlled substances. The Nursing track covers basic trauma life support, mission and organization of the Army nurse corps; documentation of nursing process; workload management; quality assurance; mentoring; and legal issues in nursing. The Military Science track covers maintenance forms/records, preventive maintenance service, and emergency medical care. The Behavioral Science track covers Army mental health services; staff supervision; crisis intervention in combat and disaster; Army family advocacy program; psychological aspects of AIDS and of terrorism; quality assurance and ethics. The Preventive Medicine track (68B) covers health physics; radiation units; radioactive decay; nuclear statistics; radiation protection; biologic effects of radiation; radiation regulatory requirements; radioactive waste management; and safety surveys of radiographic equipment. The Preventive Medicine track (68F, 68N, and 68P) covers water supply; swimming pools; sanitation; industrial hygiene; and entomology and preventive medicine. The Optometry track covers Army personnel management; the role of the optometry service in the military; and equipment maintenance. The Medicine and Surgery track covers the mission of the medical corps; brigade operation and combat; medical training of the Army personnel; medical implications of Army combat operations and of chemical warfare; and field operations and sick call. The Human Resources Management track covers nutrition care in Army hospitals; the Army's computerized food service system; field feeding system; thermal injuries; clinical dietetic management; and the dining facility. The Laboratory Sciences track covers the curriculum of medical laboratory specialists and combat laboratory materials. The Audiology track covers audiology clinic management; audiology in the Army and hearing conservation program.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in military science for completion of the preparatory phase (10/95); in the upper-division baccalaureate category, 3 semester hours in military science, 3 in basic health care administration, and 3 in basic organizational behavior/management for completion of the common core phase. For those in the nursing track, 1 semester hour in emergency nursing and 1 additional in military science. For those in the dental track, an additional 2 semester hours in military science. For those in the medical track, 2 semester hours in diseases of military importance and 1 additional in military science. For those in the medical service corps platoon leader track, 2 semester hours in health services planning and operations and 4 additional in military science. For those in clinical support services track, additional 2 semester hours in military science and 2 in advanced laboratory practicum. For those in the audiology track, additional 2 semester hours in military science and 2 in clinical practicum. For those in environmental science/engineering track, addi-

tional 2 in military science and 2 in preventive medicine/industrial hygiene. For those in the NBC track, 6 semester hours in radiation safety. For those in behavioral science track, additional 2 in military science and 2 in issues in behavioral science. For those in the pharmacy track, additional 2 semester hours in military science and 3 in sterile products. For those in the optometry track, additional 2 in military science and 2 in clinical practicum. For those in the both the occupational therapy track and the physical therapy track and the dietician track, additional 2 semester hours in military science. For those in the physician assistant track, additional 2 semester hours in military science and 2 in diseases of military importance, and for those in the veterinary track, additional 2 in military science and 3 in current issues in veterinary science (10/95). **Version 2:** In the lower-division baccalaureate/associate degree category, 1 semester hours in emergency and preventive medicine for core studies (Phase 1); for those in the Military Science track, in the lower-division baccalaureate/associate degree category, 3 semester hours in first aid (8/93); in the upper-division baccalaureate category, 3 semester hours in health care administration and 3 in military science for the core studies (Phase 1); for those in the Veterinary track, 1 semester hours in military science, 4 in food and meat inspection, and 1 in animal disease prevention and control; for those in the Pharmacy track, 2 semester hours in sterile production, 1 in clinical practicum; for those in the Nursing track, 1 semester hour in basic trauma life support; for those in the Behavioral Science track, 1 semester hour in crisis intervention; for those in Preventive Medicine (68B) track, 2 semester hours in radiation protection; for those in Preventive Medicine (86F, 68N, 68P), 1 semester hour in principles of sanitation; for those in Medicine and Surgery track, 1 semester hour in military science; and for those in the Audiology track, 1 semester hour in audiology practicum. For those in the Medicine and Surgery track in the upper-division baccalaureate category, 1 semester hour in military science (8/93); in the graduate degree category, 2 semester hours in managing chemical injuries (8/93).

Related Occupations: 65C; 67B; 68B; 68F; 68L; 68N; 68P; 68R; 68S; 68U.

AR-0707-0020

PRINCIPLES OF MILITARY PREVENTIVE MEDICINE

Course Number: 6A-F5.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 9 weeks (365 hours).

Exhibit Dates: 6/90-1/93.

Learning Outcomes: Upon completion of the course, the student will be able to apply the principles and concepts of preventive maintenance when assigned to preventive medicine/units services including basic pest control, industrial and occupational considerations, and preventive medicine issues, with an emphasis on roles and responsibilities; prevention programs; disease control; and nuclear, radiation, and other safety hazards. Those in the physician assistant/veterinary corps track will be able to apply preventive maintenance principles and procedures with an emphasis on family health issues; sanitation and water treatment; industrial health problems; and disease prevention and control. Those in the medical service corps (entomology) will be able to apply preventive

maintenance principles with an emphasis on control of pests, sanitation and water treatment, and disease prevention and control. Those in the community health nurse track will have an emphasis on intervention with domestic violence and child abuse; providing health and nutrition support to families, dealing with industrial hygiene issues, and supporting public health strategies in the community. Those in the general medical service corps excluding entomologists will find an emphasis on sanitary and environmental hygiene situations.

Instruction: This course covers topics in community health practices; communicable and infectious diseases; epidemiology; statistics; hygiene; health physics; sanitary engineering and environmental sciences as core topics. Four additional tracks exist: those in the physician assistant/veterinary corps track will cover topics in familial case referral; health topics; protective equipment; and disease prevention control. Those in the medical service corps track (entomologists) cover topics in pest management; waste management; field water supply; protective equipment; and public health issues. Those in the community health nurse track cover topics in wellness; sexual abuse; nutrition and other community issues; public health problems such as pediatric infectious diseases; industrial hygiene; and occupational and behavioral health risks. Those in the medical service corps (except entomologists) cover pest management; field water supply; waste management; protective equipment; and disease prevention and control.

Credit Recommendation: In the upper-division baccalaureate category, for those in the medical service corps (except entomologists) 3 semester hours in principles of industrial hygiene and 3 in community health principles. For those in the veterinary corps, physician assistant track, 3 semester hours in public health and 3 in issues in preventive medicine. For those in the medical corps (entomology) track, 4 in issues in entomology and 2 in public health principles. And for those in the community health nurse track, 3 semester hours in public health principles and 3 in community health nursing (8/93).

AR-0707-0021

INTERMEDIATE INDUSTRIAL HYGIENE TOPICS

Course Number: 6H-F10/322-F10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (78 hours).

Exhibit Dates: 3/94-Present.

Learning Outcomes: Upon completion of the course, the student will be able to conduct sampling of airborne contaminants; describe requirements of a respiratory protection program; discuss current trends in industrial hygiene; describe management of asbestos; calibrate industrial hygiene survey equipment; identify elements of ergonomics program; and discuss other environmental issues to include toxicology, air quality, ventilation, solvents, paint, hearing conservation, and blood-borne pathogens.

Instruction: Lecture, small group discussion, practical exercises on industrial hygiene techniques utilized in the recognition, evaluation, and control of occupational health hazards.

Credit Recommendation: In the lower-division baccalaureate/associate degree cate-

gory, 4 semester hours in principles of industrial hygiene (10/95).

AR-0707-0022

TROPICAL MEDICINE

Course Number: 6H-F23.

Location: Walter Reed Institute of Research, Washington, DC.

Length: 6 weeks (216 hours).

Exhibit Dates: 1/90-7/95.

Learning Outcomes: Upon completion of the course, the student will be able to discuss the principles of immune response to tropical diseases; diagnose and treat common tropical diseases; prevent tropical diseases in selected populations; and perform appropriate tests to identify tropical diseases.

Instruction: This course provides a broad introduction and overview of tropical medicine. All major diseases health care problems and prevention issues in tropical medicine are addressed. Lecture and laboratory experiences are provided.

Credit Recommendation: In the graduate degree category, 10 semester hours in tropical medicine (10/95).

AR-0707-0023

ARMY MEDICAL DEPARTMENT (AMEDD) OFFICER BASIC

Course Number: 6-8-C20(MC/DC/VC).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 3 weeks (122 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the core curriculum of the course, the student will be expected to be able to discuss roles and responsibilities of the medical, dental, or veterinary officer in the military and during wartime. Those in the medical phase will be able to discuss current concepts in the treatment of burns and high velocity ballistic wounds. Those in the dental phase will be able to discuss the principles of preventive dentistry. Those in the veterinary phase will be able to discuss the principles of human resources.

Instruction: This course includes lectures on the responsibilities of the medical department officer, military customs and traditions; principles of medical support of combat operations; the Uniform Code of Military Justice; NBC protective equipment, and substance abuse.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in military science (medical application) for the core curriculum and 1 semester hour in each track (medical, dental, or veterinary) (10/95).

AR-0708-0001

PSYCHIATRIC SPECIALIST

(Psychiatric Procedures Basic)

(Neuropsychiatric Procedures Basic)

(Neuropsychiatric Specialist)

Course Number: 302-91F10; 302-91F20; B-302-A045; B-302-0045.

Location: Phase 1, Academy of Health Sciences, Ft. Sam Houston, TX; Phase 2, Naval School of Health Sciences Naval Hospital, San Diego, CA; Phase 2, Audie Murphy Memorial Veterans Hospital, San Antonio, TX; Phase 2, Wilford Hall AF Medical Center, Lackland

AFB, TX; Phase 2, Naval Regional Medical Center, Portsmouth, VA; Phase 2, Medical Field Service School, Oakland, CA; Phase 2, Naval Regional Medical Centers, Continental, US; Phase 2, Civilian/Military Medical Facilities, Continental, US.

Length: 8-12 weeks (176-477 hours).

Exhibit Dates: 1/90-6/94.

Learning Outcomes: After 6/94 see AR-0708-0005. To provide nursing personnel with practical knowledge and skills to assist in the care and treatment of psychiatric patients.

Instruction: Lectures and practical exercises in the performance of managerial, clerical and security duties of psychiatric attendants; identification, preparation, administration, and observation for side effects of medication as required; observation, recording, and reporting of patient behavior; assistance in psychiatric therapies; evaluation and fulfillment of the physical and psychological nursing needs of psychiatric patients; behavioral recognition; therapeutic intervention procedures; lectures on understanding human development; and etiology, dynamics, and symptomatology of mental illness.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in abnormal psychology, 3 in psychiatric nursing, 3 in psychiatric therapies, and 5 in psychiatric or mental health clinical practice (1/90); in the upper-division baccalaureate category, credit in psychology and psychiatric nursing on the basis of institutional evaluation (1/90).

Related Occupations: 91F.

AR-0708-0003

PSYCHIATRIC MENTAL HEALTH NURSE

Course Number: 6F-66C.

Location: Academy of Health Sciences, Ft. Sam Houston, TX; Dwight David Eisenhower Medical Center, Ft. Gordon, GA.

Length: 22 weeks (791-838 hours).

Exhibit Dates: 1/90-Present.

Objectives: To prepare Army Nurse Corps officers to provide care and treatment for psychiatric patients within a hospital setting.

Instruction: This course utilizes lecture, conference and practical experience to cover therapeutic psychiatric nursing, psychiatric dysfunctions, group therapy, somatic therapy, therapeutic milieu, nursing unit management. All subject areas include a directed clinical practicum.

Credit Recommendation: In the graduate degree category, 2 semester hours in psychological dysfunction, 3 in group therapy, 3 in therapeutic psychiatric nursing, 4 in supervised clinical experience in psychiatric nursing (7/93).

AR-0708-0004

PSYCHIATRIC/MENTAL NURSING

Course Number: 6F-66C.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 22 weeks (791 hours).

Exhibit Dates: 7/93-Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify the various roles of the psychiatric treatment team; identify the role of the psychiatric nurse; apply the nursing therapeutic process to the care of emotionally distressed individuals; under-

stand selected theories of personality development; assess patients for psychiatric dysfunctions; conduct therapeutic groups; apply somatic therapies to patient care; establish a therapeutic milieu; apply management skills to a psychiatric unit; and apply the nursing process to the care of a broad range of psychiatric patients.

Instruction: Uses lecture, discussion, presentations clinical experiences and intervention; to assess and provide therapeutic treatment, and management to a group of clients with varied psychiatric patients.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in orientation to psychiatric nursing, 1 in state of the art psychiatric nursing, 2 in nursing therapeutic process, 1 in developmental theories, 4 in psychiatric dysfunctions and group therapy, 1 in therapeutic milieu and nursing unit management, and 14 in clinical practicum (10/95).

AR-0708-0005

PSYCHIATRIC SPECIALIST

Course Number: 302-91F10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 12 weeks (477 hours).

Exhibit Dates: 7/94-Present.

Learning Outcomes: Before 7/94 see AR-0708-0001. Upon completion of the course, the student will be able to identify common problems in human development; identify common symptoms of psychopathology; demonstrate basic communication techniques; demonstrate appropriate supportive interventions in the care and treatment of psychiatric patients; and demonstrate appropriate protective interventions for the care and treatment of psychiatric patients.

Instruction: Lectures and practical exercises in the performance of managerial, clerical and security duties of psychiatric technicians; identification, preparation, administration, and observation for side effects of medication as required; observation, recording, and reporting of patient behavior; assistance in psychiatric therapies; evaluation and fulfillment of the physical and psychological nursing needs of psychiatric patients; behavioral recognition; therapeutic intervention procedures; lectures on understanding human development; and etiology, dynamics, and symptomatology of mental illness.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in human development and psychopathology, 2 in psychiatric patient care, 3 in treatment modalities, and 6 in clinical practicum (10/95).

AR-0709-0002

EAR, NOSE, AND THROAT SPECIALIST

(Eye, Ear, Nose, and Throat Specialist)

Course Number: Version 1: 300-P2. Version 2: 300-91U10.

Location: Version 1: Academy of Health Sciences, Ft. Sam Houston, TX. Version 2: Selected Medical Centers and Activities, Continental US; Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Version 1: Phase 1, 6 weeks (238 hours); Phase 2, 7 weeks (264 hours). Version 2: Phase 1, 4-6 weeks (225 hours); Phase 2, 7-9 weeks (272-528 hours).

Exhibit Dates: Version 1: 9/92-Present. Version 2: 1/90-8/92.

Learning Outcomes: Version 1: Upon completion of the course, the graduate will be able to identify the structures and functions of the ear, nose, and throat; develop skills in administering the various tests, and reporting results to the appropriate personnel; assists the physician in the appropriate clinics; performs specific treatments (ex. irrigation of ear) under supervision; identify specific equipment and/or instruments for an ENT clinic; match symptoms, causes, and diseases of the body parts to the correct treatment; and relate the pharmacological aspects to various areas of the clinic. Version 2: Upon completion of the course, the student will be able to assist physicians and nurses in specialized outpatient services.

Instruction: Version 1: Methods of instruction include didactic and experiences in a clinical setting. Topics include anatomy and physiology of ear, nose, throat; pathological conditions; and diagnostic phases, sterilization; and assisting in the clinics. Version 2: Lectures and practical exercises in sterile techniques, audiometric and optical examinations, administration of medications, preparation and safeguarding of medical records, ordering and storing medical supplies, and identification and care of specialized instruments and equipment. Optics is not included.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, Phase 1, didactic 6 semester hours in ENT. Phase 2, clinical 6 semester hours in ENT practicum (10/95). Version 2: In the vocational certificate category, 6 semester hours in medical assisting (3/90); in the lower-division baccalaureate/associate degree category, 1 semester hour in anatomy and physiology, 1 in audiology and 4 in practicum in otolaryngology (3/90).

Related Occupations: 91B; 91U.

AR-0709-0005

PHARMACY SPECIALIST

Course Number: 8-R-932.2; 312-91Q10.

Location: Medical Field Service School, Ft. Sam Houston, TX; Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 17-18 weeks (570-715 hours).

Exhibit Dates: 1/90-9/93.

Objectives: After 9/93 see AR-0709-0052. To provide pharmacy auxiliary personnel with a working knowledge of drugs, their sources, preparation, uses, incompatibilities and doses; pharmaceutical symbols and terms; and storage, control procedures and dispensing procedures performed under the supervision of a pharmacist or physician.

Instruction: Lectures and practical experience in the fundamentals of pharmacy, including manufacture and labeling of pharmaceutical prescriptions, preparation of common drugs and medicines, use of pharmaceutical reference texts, and applied accounting and control procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in pharmacy administration and calculation, 1 in pharmaceutical chemistry, 2 in physiology and pathology, 3 in pharmacology, 4 in hospital pharmacy, and 3 in pharmaceutical preparations (3/92).

Related Occupations: 91Q.

AR-0709-0009

CLINICAL SPECIALIST

Course Number: 300-91C30, 300-91C10

Location: Hospitals, Continental US

Length: 40 weeks (1372-1760 hours)

Exhibit Dates: 1/90-1/90

Objectives: To provide medical specialists with the advanced skills and knowledge necessary to supervise and perform patient-care duties appropriate to hospital and field medical assistants.

Instruction: Study of basic principles of management and administration including personnel development; professional nursing sciences; pharmacology in patient care; basic principles of health and environment related to Army medical field service; fundamental clinical experience emphasizing medical and surgical patient care including surgical follow-through, plus immediate postoperative care as well as ambulatory patient, maternal and newborn patient, and pediatric patient care.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 12 semester hours in clinical nursing experience, 8 in medical-surgical nursing, 4 in anatomy and physiology, 3 in maternal and child nursing, 2 in theory and practice of patient care, 2 in pharmacology, 1 in nutrition, 1 in preventive medicine, 1 in psychiatric medicine, 3 in environmental health (6/77).

Related Occupations: 91B; 91C; 91Z.

AR-0709-0015

OPTICAL LABORATORY SPECIALIST

Course Number: 311-42E10.

Location: Medical Equipment and Optical School, Aurora, CO.

Length: 21 weeks (815-945 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide students with a theoretical basis and working knowledge of ophthalmic optics, optical laboratory procedures, and optical equipment to fabricate prescribed eyewear.

Instruction: Lectures and practical exercises to include prescription analysis, laboratory procedures and production of eyewear, ocular anatomy and physiology, skill development, lens verification, equipment maintenance and repair, and safety precautions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in ophthalmic optics, 7 in optical laboratory procedures, 7 in optical laboratory production and 6 in optical laboratory apprenticeship (7/88).

AR-0709-0017

PHARMACY STERILE PRODUCTS

Course Number: 6H-68H/312-F1.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Self-paced, maximum, 2 weeks (83 hours).

Exhibit Dates: 1/90-3/92.

Objectives: To provide pharmacy personnel with a working knowledge of the techniques, procedures, and administrative functions involved in preparing sterile products.

Instruction: Lectures, demonstrations, and practical exercises relative to the work environment, the preparation, calculation, and administration of sterile products, and the management

of a pharmacy sterile product section. Course has 2 elements: pre-course self-study requiring student to complete self-paced exportable modules pertaining to pharmaceutical calculations, and a two-week resident phase.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in specialized pharmacy or pharmaceutical chemistry (6/89).

Related Occupations: 91C

AR-0709-0023

CARDIAC SPECIALIST

Course Number: 300-91N10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 12 weeks (513 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide skills and knowledge of fundamental techniques necessary to assume duties and responsibilities of the cardiac specialist.

Instruction: Course provides a comprehensive introduction to noninvasive cardiology technology consisting of 159 hours didactic and 354 hours of clinical practicum. Topics include: interpretation of EKG patterns, performance of cardiac stress test and use of quantitative assessment with holtor monitor and 12 lead EKG for normal and abnormal cardiac conditions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours of didactic instruction in noninvasive cardiology technology and 1 in clinical practicum in cardiology technology (9/85).

AR-0709-0027

GRAVES REGISTRATION SPECIALIST BASIC TECHNICAL

Course Number: 492-57F30.

Location: Quartermaster School, Ft. Lee, VA.

Length: 3-9 weeks (120 hours).

Exhibit Dates: 1/90-5/92.

Objectives: To educate and train enlisted personnel in supervision of a graves registration activity.

Instruction: Lectures, conferences, practical exercises, demonstrations, and examinations in search and recovery missions, mass casualty operations, operating procedures for collecting points, and temporary cemeteries.

Credit Recommendation: In the vocational certificate category, 4 semester hours in mortuary science or forensic sciences (8/88).

Related Occupations: 57F.

AR-0709-0032

MEDICAL SPECIALIST

Course Number: Version 1: 300-91B10. Version 2: 300-91A10. Version 3: 300-91A10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Version 1: 10 weeks (394 hours). Version 2: 10 weeks (384 hours). Version 3: 10 weeks (360 hours).

Exhibit Dates: Version 1: 4/93-Present. Version 2: 3/91-3/93. Version 3: 1/90-2/91.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to measure and record vital signs; practice medical-surgical asepsis and infection control; per-

form CPR and first aid, administer oxygen therapy; perform patient assessment; control bleeding and care for patients with shock; immobilize orthopedic injuries; administer immunizations and injections; initiate and maintain intravenous therapy; and manage patients with artificial airways. Students complete National Registry Exam for Emergency Medical Technician Basic certification during the course. *Version 2:* Upon completion of the course, the student will be able to measure and record vital signs; perform CPR and first aid; administer oxygen therapy; perform patient assessment; manage patients with artificial airways; control bleeding; administer immunizations and injections; initiate and maintain intravenous therapy; immobilize orthopedic injuries; perform selected invasive skills; and complete the National Registry Exam for Emergency Medical Technician-Basic certification. *Version 3:* Upon completion of the course, the student will be able to measure and assess vital signs, complete and maintain records, perform CPR, administer oxygen, manage a patient with artificial airways, manage wounds, administer infections and immunizations, treat chemical injuries, initiate measures to prevent spread of communicable disease, initiate basic field sanitation procedures.

Instruction: *Version 1:* Course covers bleeding and shock; splinting; medical emergencies; invasive skills; injection; intravenous infusion and blood drawing; nursing skills; anatomy and physiology; acute minor illness; and record keeping. Methodology includes lectures, demonstrations, practical exercises, and field training in CPR. *Version 2:* Methodology includes lectures, demonstrations, practical exercises, and field training in CPR. Course content includes control of bleeding; splinting; medical emergencies; anatomy and physiology; invasive skills; immunizations; blood and intravenous nursing skills; and record keeping. *Version 3:* Lectures, laboratories, demonstrations in anatomy and physiology, medical records, nursing care procedures.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in basic life support or first aid, 4 in emergency medical technology, 2 in anatomy and physiology, and 2 in medical terminology (8/93). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in basic life support and first aid, 3 in emergency medical technology, 2 in anatomy and physiology, and 2 in medical terminology (8/93). *Version 3:* In the lower-division baccalaureate/associate degree category, 2 semester hours in physiology, 2 in first aid, and 1 in nursing care (4/88).

Related Occupations: 91A; 91B.

AR-0709-0033

MEDICAL NONCOMMISSIONED OFFICER (NCO)

Course Number: 300-91B20.

Location: Selected US Army Reserve and National Guard Academies, Continental US; Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 12 weeks (471 hours).

Exhibit Dates: 1/90-9/91.

Learning Outcomes: After 9/91 see AR-0709-0049. Upon completion of the course the student will be able to function at the noncommissioned officer level in the battlefield or in

garrison prehospital care and emergency/ambulatory treatment facilities.

Instruction: Lectures, laboratories in pharmacology, anatomy, physiology, paramedic skills, clinical skills, and infectious diseases.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in hygiene and 2 in pharmacology (4/88); in the upper-division baccalaureate category, 3 semester hours in physiology and credit for physician assistant programs determined by the institution (4/88).

AR-0709-0035

OPERATING ROOM SPECIALIST

Course Number: *Version 1:* 301-91D10. *Version 2:* 301-91D10.

Location: *Version 1:* Phase 2. Selected MEDACS, MEDCENS, Continental US; Phase 1, Academy of Health Sciences, Ft. Sam Houston, TX. *Version 2:* Phase 1, Academy of Health Sciences, Ft. Sam Houston, TX; Phase 2. Selected Medical Facilities, various locations.

Length: *Version 1:* Phase 1, 6 weeks (224 hours); Phase 2, 6 weeks (254 hours). *Version 2:* 12 weeks (216-254 hours).

Exhibit Dates: *Version 1:* 2/95–Present. *Version 2:* 1/90–1/95.

Learning Outcomes: *Version 1:* Upon completion of the course, the operating room specialist will be able to apply cognitive and practical foundations in the various roles of a scrub, circulation, and central material supply/service specialist, as it pertains to direct effective support of surgery procedures. *Version 2:* Upon completion of the course the student will be able to identify, maintain and sterilize surgical instruments, sutures, needles, blades, and metal ware; carry out the duties of scrub and circulator; transport and position patients; prepare sterile supplies; handle specimens.

Instruction: *Version 1:* To accomplish the learning outcome, the following topics will be covered: principles and methods of sterilization; identification and care of surgical instruments, sutures, needles, and blades; duties of the scrub and circulation; principles and practices of sterile techniques; identification, transporting, and positioning of patients; preparation of sterile supplies; and handling of specimens. *Version 2:* Lectures, laboratories and clinical practicum in operating room and sterilization techniques, hygiene and physiology. Both Phases must be completed.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, Phase 1, 15 semester hours in didactic operating room technology. Phase 2, 8 semester hours in clinical operating room technology (10/95). *Version 2:* In the vocational certificate category, certification in operating room techniques (4/88); in the lower-division baccalaureate/associate degree category, 15 semester hours in operating room techniques and 1 in physiology for Phase 1. NOTE: Credit is based on successful completion of both phases. Phase 2 is offered at various locations (4/88).

Related Occupations: 91D.

AR-0709-0036

PATIENT ADMINISTRATION

Course Number: *Version 1:* 7M-F3. *Version 2:* 7M-F3.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 6-7 weeks (265 hours). *Version 2:* 6-7 weeks (262-264 hours).

Exhibit Dates: *Version 1:* 7/94–Present. *Version 2:* 1/90–6/94.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to apply the principles and procedures required for administration of patients in army medical treatment facilities. *Version 2:* Upon completion of the course the student will be able to apply the principles and procedures required for administration of patients in army medical treatment facilities.

Instruction: *Version 1:* Lectures and practical exercises in the principles and procedures required for the administration of patients in army medical treatment facilities, including patient administration, health care organization and analysis, and human resources management, identifying peacetime as well as mobilization, for a total of 457 hours. *Version 2:* Lectures and practical exercises in the principles and procedures required for the administration of patients in army medical treatment facilities, including patient administration, health care organization and analysis, and human resources management.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 6 semester hours in health care organization and management (10/95). *Version 2:* In the upper-division baccalaureate category, 6 semester hours in health care organization and management (4/93).

AR-0709-0037

MORTUARY AFFAIRS SPECIALIST ADVANCED
NONCOMMISSIONED OFFICER (NCO)
(Graves Registration Specialist Advanced
Noncommissioned Officer (NCO))

Course Number: *Version 1:* 492-92M40. *Version 2:* 492-57F40. *Version 3:* 492-57F40.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 8-9 weeks (307 hours). *Version 2:* 6-7 weeks (234 hours). *Version 3:* 5-6 weeks (128 hours).

Exhibit Dates: *Version 1:* 10/95–Present. *Version 2:* 6/92–9/95. *Version 3:* 1/90–5/92.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to supervise personnel for cemetery operations, mortuary service contracts, and coordinate graves registration matters. *Version 2:* Upon completion of the course, the student will be able to supervise personnel for cemetery operations, mortuary service contracts, and coordinate graves registration matters. *Version 3:* Upon completion of the course, the student will be able to supervise personnel for cemetery operations, mortuary service contracts, and coordinate graves registration matters.

Instruction: *Version 1:* This version is pending evaluation. Includes conferences, television, and performance exercises in the review of mortuary service contracts; graves registration operations, cemetery layout requirements; escort services; arrangement of matters such as temporary cemetery locations, emergency burials, security and disposition of remains and personal effects, inspection and shipment of remains. *Version 2:* Includes conferences, television, and performance exercises in the review

of mortuary service contracts; graves registration operations, cemetery layout requirements; escort services; arrangement of matters such as temporary cemetery locations, emergency burials, security and disposition of remains and personal effects, inspection and shipment of remains. *Version 3:* Includes conferences, television, and performance exercises in the review of mortuary service contracts; graves registration operations, cemetery layout requirements; escort services; arrangement of matters such as temporary cemetery locations, emergency burials, security and disposition of remains and personal effects, inspection and shipment of remains.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, In the lower-division baccalaureate/associate degree category, 3 semester hours in forensic sciences or in mortuary science and 1 in principles of supervision. See AR-1404-0035 for common core credit (2/93). *Version 3:* In the lower-division baccalaureate/associate degree category, 3 semester hours in forensic sciences, 1 in management sciences (10/88).

Related Occupations: 57F; 92M.

AR-0709-0038

GRAVES REGISTRATION SPECIALIST

Course Number: 492-57F10.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 8 weeks (284-288 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform search, recovery, evacuation, documentation, and proper disposition of remains and associated personal effects.

Instruction: Includes lectures, demonstrations, television, and performance exercises in mortuary affairs; search for, recovery, and collecting operations; identification by fingerprinting, anatomical, and skeletal charts; and processing all required forms and records.

Credit Recommendation: In the vocational certificate category, 9 semester hours in mortuary science or forensic studies (10/90); in the lower-division baccalaureate/associate degree category, 3 semester hours in forensic sciences (10/90).

Related Occupations: 57E.

AR-0709-0039

SPECIAL FORCES DIVING MEDICAL TECHNICIAN

Course Number: *Version 1:* 011-ASIQ5. *Version 2:* 011-F22.

Location: *Version 1:* Naval Air Station, Key West, FL. *Version 2:* John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: *Version 1:* 4 weeks (208 hours). *Version 2:* 4 weeks (150 hours).

Exhibit Dates: *Version 1:* 10/91–Present. *Version 2:* 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course the student will understand the effects of pressure on the human body during diving operations, injuries resulting from excessive exposure to pressure, and the diagnostic procedures involved in these injuries; assess and initiate emergency treatment of injuries peculiar to combat diving operations; plan medical aspects of diving operations including use of hyperbaric chambers for treating diving

injuries, neurological examinations, catheterization, venipuncture, intubations, CPR and aeromedical evacuation. *Version 2:* Upon completion of the course the student will understand the effects of pressure on the human body during diving operations, injuries resulting from excessive exposure to pressure, and the diagnostic procedures involved in these injuries; diagnose and treat diving emergencies and injuries peculiar to combat diving operations; plan diving operations including the use of recompression chambers for treating diving injuries, neurological examinations, catheterization, intravenous infusions, intubation, and aeromedical evacuation.

Instruction: *Version 1:* Includes lectures, demonstrations, and practical exercises in cardiopulmonary and neurological anatomy and physiology; physical examination, CPR, diagnostic and treatment procedures, diving emergencies and injuries, and medical aspects of planning diving operations. *Version 2:* Includes lectures, demonstrations, and performance exercises in physiology and diagnostic procedures, diving emergencies and injuries, and diving operations.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hours in basic life support, 3 in applied medical science, medical diving technician or applied science (12/92). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in applied medical science, medical diving technician, or applied science (12/88).

AR-0709-0040

FLIGHT MEDICAL AIDMAN

Course Number: *Version 1:* 300-F6. *Version 2:* 300-F6.

Location: *Version 1:* Aviation School, Ft. Rucker, AL. *Version 2:* Academy of Health Sciences, School of Aviation Medicine, Ft. Rucker, AL.

Length: *Version 1:* 4 weeks (147 hours). *Version 2:* 4 weeks (120 hours).

Exhibit Dates: *Version 1:* 12/95–Present. *Version 2:* 1/90–11/95.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to monitor and stabilize in-flight wounded; perform crash rescue; perform aeroevacuations of sick and wounded individuals; perform high performance hoist and other complex rescue operations; and conduct pre-MEDEVAC treatment. *Version 2:* Upon completion of the course, the student will be able to train medics in skills needed to be a member of an aeromedical evacuation team; train medics in skills necessary to evaluate wounded from a battlefield; assist flight surgeon; install, inspect and maintain hoist on helicopter; operate hoist during evacuation; treat victims who have head wounds, are struggling, are unconscious; triage wounded; perform and comprehend basic life support skills; including patient assessment, bandage and splinting, emergency child birth, triage and transport and evacuation.

Instruction: *Version 1:* Lectures and simulations of selected conditions related to the treatment, rescue, and evacuation of sick and wounded individuals. *Version 2:* Units of instruction include: introduction to and history of Army aviation medicine, aeromedical evacuation, crash rescue, helicopter indoctrination, patient transfer preparation, investigation of air-

craft accidents, in-flight care and safety, chemistry of fire, aircraft avionics, aircraft maintenance, extraction techniques, aviation physiology, EKG setup and operation, inhalation therapy, psychiatric disorders, toxicology, lifesaving procedures, examination and evacuation of psychiatric and trauma patients. Also, underwater survival and egress techniques, and training in flight simulator. Course is conducted through a combination of conferences, demonstration and practical experience in the fundamentals of basic life support.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 6 semester hours in advanced emergency medical service (10/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 4 semester hours in emergency medical technology basic (3/90).

AR-0709-0041

ORIENTATION TO ARMY MEDICAL DEPARTMENT (AMEDD) PHARMACY SERVICES

Course Number: 6-8-C26.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2-3 weeks (101-108 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to begin working as an Army Pharmacist with a general knowledge of the organization and operation of an Army pharmacy.

Instruction: Course includes lecture, discussions, and practical experience in the organization of Army hospitals and pharmacies, inventory management, personnel management, pharmacy computerization, staffing, budgeting, and physical security.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in pharmacy management and 1 in personnel management (3/93).

AR-0709-0042

QUALITY AUDIT OF SUBSISTENCE

Course Number: 6G-F5/321-F5.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (86 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide quality audits of subsistence using standardized, uniform interpretation of policies and procedures, and will provide wholesomeness inspection of red meat, poultry, and waterfood.

Instruction: This course consists of lectures, demonstrations, problem solving, and practicum in food science and food hygiene.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in food service/technology (2/94).

AR-0709-0043

PATIENT ADMINISTRATION RESERVE COMPONENT (NONRESIDENT/RESIDENT)

Course Number: 7M-F3-RC.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (56-81 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify and list components of quality assurance programs; list and select branches of patient administration (including entitlement-military and civilian, line of duty, admissions and disposition of trust funds); understand and utilize medical statistical reports, understand procedures for reporting and follow-up of deceased; understand procedures relating to release of medical information; administration of patients in combat zone hospital, understand medical accounting practices, know the procedure for evacuation and transfer of patients; understand hospital accreditation procedure; identify and discuss physician/administrator relationships; understand patient-centered/staff-centered factors; understand disposition of medically unfit (percentage of disability), understand reporting of seriously-ill/very seriously ill patients, be familiar with issues affecting the role of the patient administrator.

Instruction: Instructional modes include conference/lecture covering above topics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in patient care administration (7/94).

AR-0709-0044

ARMY MEDICAL DEPARTMENT (TDA) TABLE OF DISTRIBUTION AND ALLOWANCES PRE-COMMAND

Course Number: 7M-F9.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (65-83 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to review and discuss current issues in health care administration.

Instruction: Instruction involves a series of guest lectures, covering Army Health Care Administration facilities, Dental Care Systems and Family Advocacy Programs.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (3/90).

AR-0709-0045

PRINCIPLES OF MILITARY PREVENTIVE MEDICINE (ENTO)

Course Number: 6A-F5.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 9 weeks (365 hours).

Exhibit Dates: 1/90–5/90.

Learning Outcomes: Upon completion of the course, the student will be able to serve as an entomologist.

Instruction: This course includes lecture, discussion, and practice in preventive medicine, environmental hygiene, infection control, epidemiology, and public health.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in preventive medicine, 2 in environmental hygiene, 1 in infection control, 1 in epidemiology, 3 in entomology, and 1 in public health (3/90).

AR-0709-0046

1. MORTUARY AFFAIRS SPECIALIST BASIC NONCOMMISSIONED OFFICER (NCO)

2. MORTUARY AFFAIRS SPECIALIST BASIC NONCOMMISSIONED (NCO) OFFICER

Course Number: *Version 1:* 492-92M30.
Version 2: 492-57F30.

Location: Quartermaster Center and School,
Ft. Lee, VA.

Length: *Version 1:* 6 weeks (213 hours).
Version 2: 7-8 weeks (262 hours).

Exhibit Dates: *Version 1:* 10/95-2/96. *Version 2:* 6/92-9/95.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to supervise medium size mortuary affairs activities or to supervise a memorial affairs activities in an overseas mortuary. *Version 2:* Upon completion of the course, the student will be able to supervise medium size mortuary affairs activities or to supervise a memorial affairs activities in an overseas mortuary.

Instruction: *Version 1:* This version is pending evaluation. Lectures, conferences, practical exercises, demonstrations, and examinations in search and recovery operations, collection point operations, and cemetery/mass casualty and burial/escort operations. *Version 2:* Lectures, conferences, practical exercises, demonstrations, and examinations in search and recovery operations, collection point operations, and cemetery/mass casualty and burial/escort operations.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in mortuary science or forensic science. See AR-1406-0090 for common core credit (2/93).

Related Occupations: 92M.

AR-0709-0047

MORTUARY AFFAIRS OFFICER
(Graves Registration Officer)

Course Number: *Version 1:* 8B-SI4V. *Version 2:* 8B-SI4V.

Location: Quartermaster Center and School,
Ft. Lee, VA.

Length: *Version 1:* 2 weeks (72 hours). *Version 2:* 2 weeks (72 hours).

Exhibit Dates: *Version 1:* 2/93-Present. *Version 2:* 1/90-1/93.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to plan, coordinate, and supervise the care and handling of deceased personnel and their personal effects in a theater of operations. *Version 2:* Upon completion of the course, the student will be able to plan, coordinate, and supervise the care and handling of deceased personnel and their personal effects in a theater of operations.

Instruction: *Version 1:* This version is pending evaluation. Lectures, conferences, films, practical exercises and examinations in training, planning, coordination and supervision of all mortuary affairs matters in a theater to meet the need of the total force. *Version 2:* Lectures, conferences, films, practical exercises and examinations in training, planning, coordination and supervision of all mortuary affairs matters in a theater to meet the need of the total force.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the upper-division baccalaureate category, 3 semester hours in

public administration or operations management (2/93).

AR-0709-0048

PATIENT ADMINISTRATION SPECIALIST RESERVE
PHASE 2

Course Number: 513-71G10-RC (Phase 2).
Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (83 hours).

Exhibit Dates: 1/91-Present.

Learning Outcomes: Upon completion of the course, the student will be able to admit and discharge, patients, maintain medical records, and perform basic administrative procedures in a health care facility.

Instruction: Covers patient management, medical record maintenance, and administrative support processes in a health facility. Methodology includes lectures and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in medical record technology (8/93).

AR-0709-0049

1. ARMY MEDICAL DEPARTMENT (AMEDD)
BASIC NONCOMMISSIONED OFFICER (NCO)
2. ARMY MEDICAL DEPARTMENT (AMEDD)
NONCOMMISSIONED OFFICER (NCO) BASIC
(91B)

Course Number: *Version 1:* 6-8-C40 (91B Tech). *Version 2:* 6-8-C40 (91B).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 15 weeks (703 hours). *Version 2:* 15 weeks (567 hours).

Exhibit Dates: *Version 1:* 1/94-Present. *Version 2:* 10/91-12/93.

Learning Outcomes: *Version 1:* Before 10/91 see AR-0709-0033. Upon completion of the course, the student will be able to provide health service support on the battlefield; perform and document basic medical care; administer IV fluids and blood therapy; discuss the function and structures of the human body; and assess/treat the patient with trauma and common pathologies. *Version 2:* Before 10/91 see AR-0709-0033. Upon completion of the course, the student will be able to provide emergency medical services to the sick and injured.

Instruction: *Version 1:* The course covers emergency medical topics such as pharmacology; intravenous therapy; airway management; physical assessment; medical records; fluid and electrolyte balance; applied anatomy and physiology; and medical emergencies with an emphasis on the treatment of patients with multiple traumatic injuries. *Version 2:* The course covers emergency medical topics such as pharmacology; intravenous therapy; airway management; physical assessment; medical records; fluid and electrolyte balance; applied anatomy and physiology; and medical emergencies with an emphasis on the treatment of patients with multiple traumatic injuries.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in applied pharmacology, 2 in anatomy and physiology, 6 in assessing/managing injuries, 2 in military science, and 1 in IV therapy (10/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in anatomy and physiology, 2 in applied pharmacology, 2 in

managing medical emergencies, and 6 in managing traumatic injuries. See AR-1406-0090 for common core credit (8/93); in the upper-division baccalaureate category, 2 semester hours in military science (8/93).

Related Occupations: 91B.

AR-0709-0050

1. SPECIAL OPERATIONS MEDICAL SERGEANT
2. SPECIAL OPERATIONS MEDICAL SERGEANT
PHASE 1A

Course Number: *Version 1:* 011-18D30. *Version 2:* 011-18D30.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 33 weeks (1355 hours). *Version 2:* 31-33 weeks (1261-1356 hours).

Exhibit Dates: *Version 1:* 11/94-Present. *Version 2:* 2/91-10/94.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to prepare for military mission, discuss the function and structure of the human body systems, calculate drug dosages, administer medications, and assess/manage medical emergencies. *Version 2:* Upon completion of the course, the student will be able to establish and supervise a medical facility in conventional as well as non-conventional settings; and assess and manage medical and traumatic pathologies, triage, dental procedures, and related support services.

Instruction: *Version 1:* Lecture and hands-on experience in advanced assessment and treatment skills. Emphases is on management of specific pathophysiological medical, surgical, and dental conditions. *Version 2:* Course content covers anatomy; physiology; medical terminology; pathology; pharmacology; emergency medical technology; dental pathology and procedures; nursing fundamentals; physical assessment; and prevention and patient care with an emphasis on trauma. Methodology includes lectures, discussions, and laboratory and clinical experiences.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 4 semester hours in basic anatomy and physiology, 3 in basic pharmacology, 10 in emergency medical technician, and 2 in medical terminology (10/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in medical terminology, 5 in anatomy and physiology, 3 in pharmacology, 2 in dental procedures, 5 in emergency medical technology, 4 in nursing fundamentals, 3 in physical assessment, and 3 in pathology (11/93).

Related Occupations: 11D; 18D.

AR-0709-0051

JOINT SPECIAL OPERATIONS FORCES TRAUMA

Course Number: 011-F18.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 22-23 weeks (901-911 hours).

Exhibit Dates: 6/94-Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify function and structure of the human body; perform basic drug dosage calculations; discuss basic principles of pharmacology; recognize emergency medical and psychiatric disorders; assess/manage selected medical conditions; and administer medications.

Instruction: Includes didactic and hands-on instruction in basic patient management, emergency care, basic pharmacology, and physical assessment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in basic anatomy and physiology, 3 in introductory pharmacology, and 10 in emergency medical technology (5/96).

AR-0709-0052

PHARMACY SPECIALIST

Course Number: 312-91Q10

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 18 weeks (736 hours).

Exhibit Dates: 10/93-Present.

Learning Outcomes: Before 10/93 see AR-0709-0005. Upon completion of the course, the pharmacy technician will be able to discuss federal laws and army regulations controlling pharmacy operation and administration; perform pharmaceutical calculations; discuss basic anatomy, physiology, and pathophysiology as it relates to pharmacology; discuss common medications according to drug classification, including generic name, trade name, uses, and precautions; prepare and evaluate pharmacy sterile products; and perform the duties and functions of a pharmacy technician under the supervision of a registered pharmacist.

Instruction: Lectures, laboratory, and clinical experience in the fundamentals of pharmacy, including labeling of prescriptions, pharmaceutical calculations, preparation of common medications, preparation of sterile products, and use of pharmaceutical references. Pharmaceutical preparations and procedures includes dosage forms, drug information, systems quality assurance, prescription interpretations, pharmacy procedures, and federal regulations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in pharmacology; 2 in hospital pharmacy clinical; 7 in pharmaceutical preparations and procedures; 2 in pharmaceutical calculations; 1 in pharmaceutical chemistry; 2 in anatomy, physiology, and pathology; and 3 in sterile products (10/95).

AR-0709-0053

PHARMACY STERILE PRODUCTS

Course Number: 6H-68H/312-F1; 6H-67E/321-F1.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (83 hours).

Exhibit Dates: 3/92-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform sterile products calculations; explain procedures necessary in operation of a sterile products work environment; describe special protocols necessary for use of investigational drugs and neoplastic agents; discuss sterile products therapeutics; prepare sterile products; and maintain appropriate standards and records.

Instruction: This two week course includes self-paced modules, lectures, seminars, and laboratory instruction in the preparation, demonstrations, and practical exercises in the preparation, calculation, and administration of sterile products. Also includes information

related to the work environment and management of a pharmacy sterile product section. Course has 2 elements: pre-course self study to complete self-paced exportable modules and a two-week resident phase.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in sterile products (10/95).

AR-0799-0015

1. ARMY MEDICAL DEPARTMENT (AMEDD) RESERVE COMPONENT OFFICER ADVANCED
2. AMEDD RESERVE COMPONENT OFFICER ADVANCED (PHASE 2)

(Reserve Component Army Medical Department Officer Advanced, Phase 2)

Course Number: *Version 1:* 6-8-C22 (RC-OAC). *Version 2:* 6-8-C22 (RC-OAC/P2).

Location: *Version 1:* Academy of Health Sciences, Ft. Sam Houston, TX. *Version 2:* Reserve locations, US; Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* Phase 2, 2 weeks (94 hours). *Version 2:* 2 weeks (81-85 hours).

Exhibit Dates: *Version 1:* 3/95-Present. *Version 2:* 1/90-2/95.

Learning Outcomes: *Version 1:* Upon completion of the course the student will be able to apply training in military medical support operations within the duties and responsibilities of AMEDD officers. This version is pending evaluation. *Version 2:* Upon completion of the course the student will be able to apply training in military medical support operations within the duties and responsibilities of AMEDD officers.

Instruction: *Version 1:* Lectures, conferences, and practical exercises with primary focus on military science applied to the medical field. This version is pending evaluation. *Version 2:* Lectures, conferences, and practical exercises with primary focus on military science applied to the medical field.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the upper-division baccalaureate category, 2 semester hours in military science (6/93).

AR-0799-0016

RESERVE COMPONENT ARMY MEDICAL DEPARTMENT OFFICER ADVANCED, PHASE 3

Course Number: 6-8-C22 (RC-OAC/P3).

Location: Designated Reserve Schools, USA; Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (75 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to apply training in military medical support operations within the duties and responsibilities of AMEDD officers.

Instruction: Lectures, conference, demonstrations and practical exercise with emphasis on organization, administration, preventive medicine and behavioral science.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in military science (4/88); in the graduate degree category, 1 semester hour in preventive medicine and 1 in health care administration (4/88).

AR-0799-0017

ARMY MEDICAL DEPARTMENT STAFF DEVELOPMENT (RESERVE COMPONENT) (NONRESIDENT/RESIDENT)

Course Number: 7M-F4-RC/300-F4-RC

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (80 hours)

Exhibit Dates: 1/90-1/93.

Learning Outcomes: Upon completion of the course the student will have knowledge and skills necessary to perform in staff assignments at corps level and above.

Instruction: Lectures, conferences and practical exercises with particular emphasis on military science.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (4/88).

AR-0799-0018

AEROMEDICAL EVACUATION OFFICER

(Essential Medical Training for Army Medical Department (AMEDD) Aviators)

Course Number: *Version 1:* 2C-F7 (MS/WO/RC). *Version 2:* 2C-F7 (MS/WO/RC).

Location: School of Aviation Medicine, Ft. Rucker, AL; Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 2 weeks (72-89 hours). *Version 2:* 2 weeks (72-73 hours).

Exhibit Dates: *Version 1:* 5/93-Present. *Version 2:* 1/90-4/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to serve as an aeromedical evacuation pilot; understand the evacuation and transportation of the sick and injured; and understand the assessment of the sick and wounded, including triage, bandaging, and splinting. *Version 2:* Upon completion of the course, the student will understand the concepts of administering Basic Life Support Skills, and understand the assessment of the sick and wounded including triage, bandaging and splinting, IV therapy, assessment of vital signs, emergency child birth, interpreting electrocardiographs. Will also understand evacuation and transportation of the sick and injured.

Instruction: *Version 1:* Methodology includes lectures and discussion on triage, first aid, mass evacuation procedures, emergency communication, emergency planning, and crew coordination. *Version 2:* Conference, lectures, demonstrations and practical experience in the administration of basic life support procedures, patient assessment and triage, and technical procedures, including emergency child birth, IV therapy and evacuation, and transport of the sick and injured.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in trauma evaluation (5/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in EMT first responder and emergency medical technician (3/90).

AR-0799-0019

HEALTH SERVICES WARRANT OFFICER BASIC (Health Services Maintenance Technician)

Course Number: *Version 1:* 4B-670A. *Version 2:* 4B-670A/198-670A; 4B-670A.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 6 weeks (244 hours). *Version 2:* 4 weeks (128-172 hours).

Exhibit Dates: *Version 1:* 1/96–Present. *Version 2:* 1/90–12/95.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to manage medical equipment and systems, maintenance programs, train and supervise personnel performing medical equipment maintenance, determine maintenance and safety requirements, develop recommendations for installation of equipment, maintain records of equipment maintenance, contract maintenance, repair parts inventory and equipment inspection, determine staffing requirements and develop procedures for effective scheduling of manpower, time and finances. *Version 2:* Upon completion of the course, the student will be able to manage medical equipment and systems, maintenance programs, train and supervise personnel performing medical equipment maintenance, determine maintenance and safety requirements, develop recommendations for installation of equipment, maintain records of equipment maintenance, contract maintenance, repair parts inventory and equipment inspection, determine staffing requirements and develop procedures for effective scheduling of manpower, time and finances.

Instruction: *Version 1:* This version is pending evaluation. Training includes instruction in biomedical maintenance, automated maintenance management systems, logistical planning, manpower management, communications skills and non-medical maintenance. Hands-on training is provided on field equipment, electrical safety issues, vehicle maintenance and deployable medical equipment. *Version 2:* Training includes instruction in biomedical maintenance, automated maintenance management systems, logistical planning, manpower management, communications skills and non-medical maintenance. Hands-on training is provided on field equipment, electrical safety issues, vehicle maintenance and deployable medical equipment.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the upper-division baccalaureate category, 3 semester hours in biomedical equipment maintenance management, and 3 for field experience in biomedical equipment maintenance management (8/93).

AR-0799-0020

PRINCIPLES OF MILITARY PREVENTIVE MEDICINE (CHN)

Course Number: 6A-F5.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 9 weeks (365 hours).

Exhibit Dates: 1/90–5/90.

Learning Outcomes: Upon completion of the course, the student will be able to serve as a community health nurse.

Instruction: This course includes lecture, discussion, and practice in preventive medicine, environmental hygiene, infection control, epidemiology, and community health nursing.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in preventive medicine, 2 in environmental hygiene, 1 in infection control, 1 in epidemiology, and 4 in community health (3/90).

AR-0799-0021

ARMY MEDICAL DEPARTMENT (AMEDD)
AVIATOR ADVANCED

Course Number: 2C-F8.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 3 weeks (100 hours).

Exhibit Dates: 1/90–1/93.

Learning Outcomes: Upon completion of the course, the student will be able to identify the various command units and list their functions, history and resources; understand the objectives of planning, programming and budgeting; list and describe objectives of the manpower management systems; understand behavioral objectives (sleep logistics, psychological aspects of warfare); list levels of administration in the Army dental care system; understand principles of triage; understand the organization and function of the Military Science Division (identify mission, organization and functions of a division and corps practice exercises).

Instruction: Instruction consists primarily of lecture/conferences and practical exercises.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in health care administration, and 2 in military science (3/90).

AR-0799-0022

1. ARMY FLIGHT SURGEON PRIMARY (Army Flight Surgeon)
2. ARMY FLIGHT SURGEON

Course Number: *Version 1:* 6A-61N9D. *Version 2:* 6A-61N9D.

Location: Academy of Health Sciences, School of Aviation Medicine, Ft. Rucker, AL.

Length: *Version 1:* 6 weeks (224 hours). *Version 2:* 7 weeks (302-303 hours).

Exhibit Dates: *Version 1:* 11/91–Present. *Version 2:* 1/90–10/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to supply medical support to Army aviation units, including unit-level health service support, aeromedical staff advice, medical investigation of aircraft accidents, and the application of medical and scientific information and techniques to the conduct of military aviation operations. *Version 2:* Upon completion of the course, the student will be able to supply medical support to Army aviation units, including unit-level health service support, aeromedical staff advice, medical investigation of aircraft accidents, and the application of medical and scientific information and techniques to the conduct of military aviation operations.

Instruction: *Version 1:* This course includes lectures, discussion, demonstration, and practical experiences in aircraft systems, principles of aviation, aviation safety, atmospheric physics, and clinical and preventive medical topics as applied to aviation. *Version 2:* This course includes lecture, discussion, demonstration, and practical experiences in aircraft systems, principles of aviation, aviation safety, flight training, atmospheric physics, and clinical and preventive medical topics as applied to aviation.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 2 semester hours in general aviation and 2 in aviation administration (12/95); in the graduate degree category, 8 semester hours in aviation medicine (12/95). *Version 2:* In the upper-division baccalaureate category, 4 semester hours in general aviation, and 5 in flight training (3/90); in the graduate degree category, 5 semester hours in aviation medicine (3/90).

Related Occupations: 61N.

AR-0799-0023

REHABILITATION TRAINING INSTRUCTOR

Course Number: 7H-F45 (RTIC).

Location: Military Police School, Ft. McClellan, AL.

Length: 2 weeks (98 hours).

Exhibit Dates: 5/92–Present.

Learning Outcomes: Upon completion of the course, students will be prepared to serve as instructors for civilians who are involved in boot camp youthful offender programs, and also to use drill sergeant techniques to maintain a constant level of control and discipline.

Instruction: Lectures and applied exercises in fitness training, counseling, alcohol and drug abuse, drill techniques, stress management, and behavioral evaluations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in counseling techniques and 3 in physical education/fitness (6/92).

AR-0799-0024

NUCLEAR PHARMACY ORIENTATION

Course Number: 6H-F19.

Location: Fitzsimmons Medical Center, Aurora, CO; Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (76 hours).

Exhibit Dates: 5/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to discuss the role of the nuclear pharmacy; discuss trends in nuclear pharmacy practice; prepare radiopharmaceuticals; perform dose calibration and quality control techniques; discuss state, local and federal regulations which pertain to nuclear pharmacy; discuss application of nuclear medicine technologies for evaluation and diagnosis; practice radiation safety; and discuss basic nuclear physics.

Instruction: Covers nuclear pharmacy management and operations; radiopharmaceuticals, radiation safety, nuclear medicine studies, and nuclear physics. Methodology includes lectures, demonstrations, and practical exercises.

Credit Recommendation: In the graduate degree category, 2 semester hours in nuclear pharmacy (7/95).

AR-0799-0025

ARMY MEDICAL DEPARTMENT (AMEDD) TABLE OF DISTRIBUTION (TDA) DEPUTY COMMANDER FOR CLINICAL SERVICES

Course Number: 6A-DCCS.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (64 hours).

Exhibit Dates: 8/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to understand pertinent issues related to the utilization of AMEDD resources; manage personnel; apply decision making processes; understand legal issues; practice modern labor relations strategies; and understand risk management issues.

Instruction: Covers human resource management, patient administration, health care

administration, acquisition and management of resources, professional affairs, and legal issues. Methodology includes lectures, discussions, and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in management (8/93).

AR-0799-0026

ARMY MEDICAL DEPARTMENT (AMEDD) BASIC
NONCOMMISSIONED OFFICER (NCO) (76J)

Course Number: 6-8-C40 (76J Tech Tng), 6-8-C40 (76J)

Location: Academy of Health Sciences, Ft Sam Houston, TX.

Length: 7 weeks (252-276 hours).

Exhibit Dates: 2/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise a materials management department in a health care facility.

Instruction: This course covers purchasing, storage, and distribution of a wide variety of materials needed in medical organizations, with significant emphasis on organization, accountability, and record keeping. Methodologies include lectures, discussions, small group work, presentations, and supervised practical applications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (8/93); in the upper-division baccalaureate category, 2 semester hours in military science and 3 in materials management (8/93).

Related Occupations: 76J.

AR-0799-0027

ARMY MEDICAL DEPARTMENT (AMEDD)
NONCOMMISSIONED OFFICER (NCO)
ADVANCED

Course Number: *Version 1:* 6-8-C42. *Version 2:* 6-8-C42.

Location: Academy of Health Sciences, Ft Sam Houston, TX.

Length: *Version 1:* 6 weeks (265 hours). *Version 2:* 8 weeks (140-291 hours).

Exhibit Dates: *Version 1:* 1/95–Present. *Version 2:* 10/91–12/94.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to apply general management principles to organizational issues such as unit operation, resource management and supply, preventive medicine, and safety and environmental problems. Those students in the tracks for biological sciences assistant, orthotic specialist, optical laboratory specialist, psychiatric specialist, behavioral sciences specialist, orthopedic specialist, physical therapy specialist, occupational therapy specialist, cardiac specialist, ear, nose, and throat specialist, respiratory specialist, nuclear medicine specialist, eye specialist, and cytology specialist will be able to conduct related laboratory procedures in a field environment demonstrating effective training and supervisory skills. Those students in the patient administration specialty will be able to utilize diagnostic-related groups for patient administration. Those students in the dental specialist track and the dental laboratory specialist tracks will be able to provide preventive maintenance to dental equipment, deal with personnel management, and organizational issues in a military unit. Those who are in the medical specialist track will be able to develop

a medical support plan, set up and evacuate a medical field station, and supervise staff in an emergency situation. Students in the veterinary food inspection specialty and the animal care specialty will be able to develop a workload activities report and manage an animal facility. The students in the pharmacy specialty will be able to recognize and prevent drug diversion, apply security procedures to military pharmacies, monitor quality assurance, and manage field operations. Those students in the health physics specialty and the preventive medicine specialty will be able to conduct emergency planning, risk analysis, and manage radiological hazards. The students in the X-ray specialty will be able to develop a risk management program, practice in an ethical manner, apply quality control tests, and perform radiographic procedures on pediatric patients. Those in the operating room specialty will be able to monitor operating room equipment and property, and manage the operating room suite. Those in the practical nurse specialty will be able to monitor management of medical equipment, apply safety measures to motor vehicles, and assume responsibility for infection control. Those in the medical supply specialty will be able to monitor the supply of medical equipment, supervise the request, receipt, and storage of medical supplies and equipment, and account for lost, damaged, and destroyed equipment. And those in the medical equipment repairer specialty will be able to develop works schedules, work orders, and manage personnel and work centers. *Version 2:* Upon completion of the course, the student will be able to apply general management principles to organizational issues such as unit operation, resource management and supply, preventive medicine, and safety and environmental problems. Those students in the tracks for biological sciences assistant, orthotic specialist, optical laboratory specialist, psychiatric specialist, behavioral sciences specialist, orthopedic specialist, physical therapy specialist, occupational therapy specialist, cardiac specialist, ear, nose, and throat specialist, respiratory specialist, nuclear medicine specialist, eye specialist, and cytology specialist will be able to conduct related laboratory procedures in a field environment demonstrating effective training and supervisory skills. Those students in the patient administration specialty will be able to utilize diagnostic-related groups for patient administration. Those students in the dental specialist track and the dental laboratory specialist tracks will be able to provide preventive maintenance to dental equipment, deal with personnel management, and organizational issues in a military unit. Those who are in the medical specialist track will be able to develop a medical support plan, set up and evacuate a medical field station, and supervise staff in an emergency situation. Students in the veterinary food inspection specialty and the animal care specialty will be able to develop a workload activities report and manage an animal facility. The students in the pharmacy specialty will be able to recognize and prevent drug diversion, apply security procedures to military pharmacies, monitor quality assurance, and manage field operations. Those students in the health physics specialty and the preventive medicine specialty will be able to conduct emergency planning, risk analysis, and manage radiological hazards. The students in the X-ray specialty will be able to develop a risk management program, practice in an ethical manner, apply qual-

ity control tests, and perform radiographic procedures on pediatric patients. Those in the operating room specialty will be able to monitor operating room equipment and property, and manage the operating room suite. Those in the practical nurse specialty will be able to monitor management of medical equipment, apply safety measures to motor vehicles, and assume responsibility for infection control. Those in the medical supply specialty will be able to monitor the supply of medical equipment, supervise the request, receipt, and storage of medical supplies and equipment, and account for lost, damaged, and destroyed equipment. And those in the medical equipment repairer specialty will be able to develop works schedules, work orders, and manage personnel and work centers.

Instruction: *Version 1:* Topics covered include military organization, health service support, elements of military operation and defense, and medical topics related to unit functioning. In addition, topics include laboratory procedures in blood banking, hematology, clinical chemistry and microbiology, and in AIDS in the laboratory for students in the following tracks: biological sciences assistant, orthotic, optical laboratory, psychiatric, behavioral sciences, orthopedic, physical therapy, occupational therapy, cardiac, ear, nose, and throat, respiratory, nuclear medicine, eye, and cytology. Covered topics include resource management and diagnostic related groups for those in the patient administration track. Covered topics include equipment maintenance, managing employees, acquisition and management of equipment, and establishment of a unit in the field for those in the dental specialist and in the dental laboratory specialist tracks. Covered topics include medical support planning, clinic operations, medical field equipment, and emergency vehicles for those in the medical specialist track. Covered topics include work load reporting, animal disease prevention and control, and field organization and management for those in the veterinary food inspection and the animal care tracks. Covered topics include drug diversion, pharmacy security, quality assurance, and field operation management for those in the pharmacy specialty track. Covered topics include emergency management, risk analysis, and radiological emergency management for those in the preventive medicine specialist track. Covered topics include risk management, ethics, quality control, and pediatric radiation for those in the X-ray specialty. Covered topics include equipment and property management, personnel scheduling and operations, and operating room maintenance for those in the operating room specialty. Covered topics include work load management, supply and equipment management, military safety, infection control, and AIDS for those in the practical nurse specialty. Covered topics include the management of medical equipment, and procedures for acquiring, storing, and dispensing equipment for those in the medical supply specialist track. Covered topics include work load management, maintenance and repair of equipment, and management of the work center for those in the medical equipment repairer track. Methodology includes lectures, conferences, and practical experiences in all tracks. *Version 2:* Topics covered include military organization, health service support, elements of military operation and defense, and medical topics related to unit functioning. In addition, topics include laboratory procedures in blood banking, hematology, clini-

cal chemistry and microbiology, and in AIDS in the laboratory for students in the following tracks: biological sciences assistant, orthotic, optical laboratory, psychiatric, behavioral sciences, orthopedic, physical therapy, occupational therapy, cardiac, ear, nose, and throat, respiratory, nuclear medicine, eye, and cytology. Covered topics include resource management and diagnostic related groups for those in the patient administration track. Covered topics include equipment maintenance, managing employees, acquisition and management of equipment, and establishment of a unit in the field for those in the dental specialist and in the dental laboratory specialist tracks. Covered topics include medical support planning, clinic operations, medical field equipment, and emergency vehicles for those in the medical specialist track. Covered topics include work load reporting, animal disease prevention and control, and field organization and management for those in the veterinary food inspection and the animal care tracks. Covered topics include drug diversion, pharmacy security, quality assurance, and field operation management for those in the pharmacy specialty track. Covered topics include emergency management, risk analysis, and radiological emergency management for those in the preventive medicine specialist track. Covered topics include risk management, ethics, quality control, and pediatric radiation for those in the X-ray specialty. Covered topics include equipment and property management, personnel scheduling and operations, and operating room maintenance for those in the operating room specialty. Covered topics include work load management, supply and equipment management, military safety, infection control, and AIDS for those in the practical nurse specialty. Covered topics include the management of medical equipment, and procedures for acquiring, storing, and dispensing equipment for those in the medical supply specialist track. Covered topics include work load management, maintenance and repair of equipment, and management of the work center for those in the medical equipment repairer track. Methodology includes lectures, conferences, and practical experiences in all tracks.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category. For completion of the Common Core, 3 semester hours in military science. Students will complete one track; for the medical equipment track, repairer advanced, 1 in medical equipment repair; for the patient administration specialist track, 1 in patient administration; for the medical supply specialist track, 1 in medical supply; for the medical specialist track, 1 in medical specialist; for the practical nurse track, 1 in practical nursing; for the dental specialist track, 1 in dental for the medical laboratory specialist track, 1 in medical laboratory; for the radiology specialist track, 1 in radiology specialty; for the pharmacy specialist track, 1 in pharmacy; for the veterinary food inspection track, 1 in veterinary technology; for the preventive medicine specialist track, 1 in preventive medicine; and for the hospital food service track, 1 in food service. All students also complete the Common Core listed at AR-1404-0035 (11/95). *Version 2:* In the lower-division baccalaureate/associate degree category, see AR-1404-0035 for common core credit (9/93); in the upper-division baccalaureate category, 3 semester hours in operations management and 1 in preventive medicine for all students; in addition,

for those in the medical laboratory specialty (92B), biological sciences assistant (01H), orthotic specialty (42C), optical laboratory specialty (42E), psychiatric specialty (91F), behavioral science specialty (91G), orthopedic specialty (91H), physical therapy specialty (91J), occupational therapy specialty (91L), cardiac specialty (91N), ear, nose, and throat specialty (91U), respiratory specialty (91V), nuclear medicine specialty (91W), eye specialty (91Y), cytology specialty (92E), patient administration specialty (71G), dental specialty (91E), and the dental laboratory specialty (42D), 1 semester hour in clinical field experiences; for those in the veterinary food inspection specialty (91R) and the animal care specialty (91T), 1 semester hour in veterinary field management; for those in the pharmacy specialty (91Q), 1 semester hour in pharmacy field management; for those in the medical non-commissioned officer track, 1 in operations control; for those in the preventive medicine track (91S) and those in the health physics track (91X), 1 semester hour in emergency management; for those in the X-ray specialty (91P), 1 semester hour in radiographic management; for those in the operating room specialty (91D), 1 semester hour in operational management; for those in the practical nurse specialty (91C), 1 semester hour in field management operations; for those in the medical supply specialty track (76J), 1 semester hour in supply management; and for those in the medical equipment repairer specialty track (35U), 1 semester hour in organizational management (9/93).

Related Occupations: 01H; 35U; 42C; 42D; 42E; 42F; 71G; 76J; 91B; 91C; 91D; 91D; 91E; 91F; 91F; 91G; 91G; 91H; 91J; 91L; 91N; 91P; 91P; 91Q; 91R; 91R; 91S; 91T; 91T; 91U; 91V; 91V; 91W; 91X; 91Y; 92B; 92E.

AR-0799-0028

ARMY MEDICAL DEPARTMENT (AMEDD)
NONCOMMISSIONED OFFICER (NCO)
ADVANCED

Course Number: 6-8-C42 (91M40).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (88 hours).

Exhibit Dates: 1/95–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise a medical food service operation; assess patient nutritional status; and present group sessions on nutritional education.

Instruction: Includes lecture and practical exercises in the areas of nutrition, food production and supply, and personnel management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in hospital food service (10/95).

AR-0801-0007

ARMY DRUG AND ALCOHOL REHABILITATION
TRAINING GROUP
(Army Drug and Alcohol Rehabilitation)

Course Number: 5H-F5/302-F5.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (76-81 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide personnel with a working knowledge of group process and tech-

nique necessary to effectively counsel clients who are substance abusers.

Instruction: Course includes important components of techniques of group development and process; group phenomena; case notes and reporting; group emotional distress, termination and follow-up; counselor growth and development.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in techniques of group counseling, and 2 in practicum in group processing (1/96).

AR-0801-0008

ARMY MEDICAL DEPARTMENT (AMEDD) OFFICER
BASIC HEALTH PROFESSIONS SCHOLARSHIP
PROGRAM

Course Number: 6-8-C20 (HPSP).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 18 weeks (720 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide training in orientation and management to medical, dental, veterinary and optical students enrolled in health professions scholarship program.

Instruction: Instruction consists of specific rotations in specific health disciplines and is a highly specialized training program.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (9/85).

AR-0801-0010

CHEMICAL OPERATIONS SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)
RECLASSIFICATION

Course Number: 494-54B (R); 494-54B20-T.

Location: Chemical School, Ft. McClellan, AL.

Length: 11-14 weeks (396-483 hours).

Exhibit Dates: 1/90–2/92.

Objectives: After 2/92 see AR-0801-0027. To train enlisted personnel to operate, maintain, and supervise the use of nuclear, biological, and chemical (NBC) detection and decontamination equipment, smoke generators, and NBC defense measures.

Instruction: Conferences, practical exercises, and examinations in individual protective skills, radiological, chemical decontamination, smoke, biological operations, tactical training, and new equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in radiological safety (1/88).

Related Occupations: 54B.

AR-0801-0012

CHEMICAL OPERATIONS SPECIALIST (BASIC
NONCOMMISSIONED OFFICER (NCO))

Course Number: 494-54B.

Location: Chemical School, Ft. McClellan, AL.

Length: 9-12 weeks (325-451 hours).

Exhibit Dates: 1/90–2/92.

Objectives: After 2/92 see AR-0801-0028. To train chemical operations specialists to assist in the establishment, administration, and application of nuclear, biological, and chemical (NBC) defense measures, and to operate, main-

tam, and supervise the use of NBC detection and decontamination equipment and smoke generators.

Instruction: Conferences, practical exercises, and examinations in individual protective skills, radiological, chemical decontamination, smoke and biological operations, tactical training, and new equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in radiological safety (1/88).

Related Occupations: 54B.

AR-0801-0014

ALCOHOL AND DRUG ABUSE PREVENTION AND CONTROL PROGRAM CLINICAL DIRECTOR/CLINICAL CONSULTANT

Course Number: 5H-F9/302-F9.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 1 week (54-55 hours).

Exhibit Dates: 1/90-3/94.

Learning Outcomes: Upon completion of the course, the student will be able to implement, administer, and evaluate the clinical aspects of the alcohol and drug abuse prevention and control program.

Instruction: Review of the role of Health Services Command, Clinical Certification Program including current initiatives, role of clinical consultant, and quality assurance. Screening alcohol and other substance abuse referrals. Training includes clinical supervision of counselors, current trends in the substance abuse field and a tour of a drug testing laboratory. Training is also provided in the treatment of substance abuse.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in substance abuse education (8/91).

AR-0801-0015

ALCOHOL AND DRUG ABUSE PREVENTION AND CONTROL PROGRAM ALCOHOL AND DRUG CONTROL OFFICER

Course Number: 5H-F6/302-F6.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 1 week (49 hours).

Exhibit Dates: 1/90-3/91.

Learning Outcomes: Upon completion of the course, the student will be able to supervise an alcohol and drug abuse prevention program including selection and management of program personnel and engage in community resource development.

Instruction: Course content includes understanding of policies and regulations relating to management of substance abuse programs and understanding trends in substance abuse prevention.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in introduction to substance abuse or 3 in health care administration (8/91).

AR-0801-0019

GENERAL MEDICAL ORIENTATION

Course Number: 300-F10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 3-4 weeks (113-131 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will have a beginning foundation in anatomy and physiology, medical terminology, first aid, medical asepsis, and field sanitation.

Instruction: Lectures, demonstrations and hands on experience in vital signs, CPR techniques, splinting, bleeding management, food and water sanitation, waste disposal, insect and rodent control.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/90).

AR-0801-0023

NBC DEFENSE OFFICER AND NONCOMMISSIONED OFFICER (NCO)
(NBC Defense)

Course Number: NBC 54.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 2 weeks (61-80 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to recognize and react to chemical, biological, or radiological hazards; prepare graphic models of hazard zones; survey contaminated zones, using detection kits, radiac instruments and dosimeters; supervise expeditious measures for decontamination; establish and maintain a library of documents and prepare associated reports; establish a training program for teaching others; use prediction devices to determine nature of, magnitude of, and hazards due to chemical, biological, and radiological devices.

Instruction: Conference, classes, practical exercises, and performance examinations. Topics include toxic and nuclear hazards, detection of chemical agents, radiological monitoring, use of protective clothing, decontamination procedures, hazard predictions and warning/reporting systems.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (10/88).

AR-0801-0024

PRINCIPLES OF MILITARY PREVENTIVE MEDICINE
(MS)

Course Number: 6A-F5.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 9 weeks (365 hours).

Exhibit Dates: 1/90-5/90.

Learning Outcomes: Upon completion of the course, the student will be able to serve as nuclear medical science officer, an environmental science officer, or as a sanitary engineer.

Instruction: This course includes lecture, discussion and clinical practice in preventive medicine, environmental hygiene, infection control, epidemiology, water quality, sanitation, and industrial hygiene.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in preventive medicine, 2 in environmental hygiene, 1 in infection control, 1 in epidemiology, 2 in water quality, 1 in sanitation, and 1 in industrial hygiene (3/90).

AR-0801-0025

DRUG AND ALCOHOL REHABILITATION TRAINING
INDIVIDUAL

Course Number: 5H 1-4/302-F4.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (73-86 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide effective counseling to clients with alcohol or drug abuse conditions; assess and screen for substance abuse, sequentially apply and discuss appropriate counseling techniques; assess psychiatric emergencies; and understand lapse, relapse, and relapse prevention as applied to rehabilitation.

Instruction: Covers topics in individual and small group counseling, evaluation and assessment screen for substance abuse, client outreach and consultation. Methods include conferences, demonstrations, and practical exercises.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in substance abuse rehabilitation counseling (1/96).

AR-0801-0026

NUCLEAR, BIOLOGICAL, CHEMICAL (NBC)
RECONNAISSANCE

Course Number: 494-ASI-L5.

Location: Chemical School, Ft. McClellan, AL.

Length: 5 weeks (237 hours).

Exhibit Dates: 7/91-Present.

Learning Outcomes: Upon completion of the course, the student will know the organization, mission, and function of nuclear, biological, and chemical reconnaissance system (NBCRS). The tactics, techniques, and procedures of NBCRS, particularly movement, surveillance, search, survey and sampling techniques; avoidance measures or contamination hazards in areas of operations; and the detection and identification of NBC agents rapidly.

Instruction: Instruction includes lectures, group discussions, and practical training in nuclear, biological, and chemical reconnaissance systems.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in environmental science, environmental studies, or hazardous materials management (9/95).

AR-0801-0027

CHEMICAL OPERATIONS SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)
RECLASSIFICATION

Course Number: 494-54B20-R.

Location: Chemical School, Ft. McClellan, AL.

Length: 15-16 weeks (665-703 hours).

Exhibit Dates: 3/92-Present.

Learning Outcomes: Before 3/92 see AR-0801-0010. Upon completion of the course, the student will be able to identify and perform critical tasks in nuclear, biological, and chemical operations; and biological defense, logistics, and maintenance applications; detection and decontamination of equipment and smoke generators, and tactical training processes.

Instruction: Methods of instruction consist of conferences, practical exercises, and examinations in individual protective skills, radiologi-

ical, chemical decontamination, smoke, and biological operations, and tactical training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in radiological safety, 1 semester hour in technical writing, and 1 semester hour in basic computer literacy (9/95).

AR-0801-0028

CHEMICAL OPERATIONS SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 494-54B20.

Location: Chemical School, Ft. McClellan, AL.

Length: 15-16 weeks (647-665 hours).

Exhibit Dates: 3/92-Present.

Learning Outcomes: Before 3/92 see AR-0801-0012. Upon completion of the course, the student will be able to identify and perform critical tasks in nuclear, biological, and chemical applications; and biological defense, logistics, and maintenance operations; detection and decontamination of equipment and smoke generators, and tactical training processes.

Instruction: The course of instruction consists of conferences, practical exercises, and examinations in individual protective skills, radiological, chemical decontamination, smoke, and biological operations; and tactical training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in technical writing, 3 semester hours in radiological safety, and 1 semester hour in basic computer literacy (9/95).

AR-0801-0029

CHEMICAL OPERATIONS SPECIALIST ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: 494-54B40.

Location: Chemical School, Ft. McClellan, AL.

Length: 13-14 weeks (563-571 hours).

Exhibit Dates: 3/92-Present.

Learning Outcomes: Before 3/92 see AR-2201-0029. Upon completion of the course, the student will be able to identify and perform critical tasks in nuclear and chemical operations, biological defense, logistics, and maintenance management; toxic agent training, computer applications, and tactical decision making processes.

Instruction: Instruction includes lectures, small-group discussion, and practical exercises in management practices and concepts, including nuclear and chemical operations, biological defense, and tactical decision making processes. Instruction also includes word processing, database, spreadsheet and computer graphics, as well as technical writing skills.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in nuclear instrumentation, 3 semester hours in radiological safety, 1 semester hour in basic computer literacy, and 1 semester hour in technical writing skills (9/95).

Related Occupations: 54B.

AR-0801-0030

CHEMICAL OPERATIONS SPECIALIST, PHASE I

Course Number: 54B10 OSUT (ST1).

Location: Chemical School, Ft. McClellan, AL.

Length: 8 weeks (300 hours).

Exhibit Dates: 11/93-Present.

Learning Outcomes: Upon completion of the course, the student will be a self-disciplined, motivated, and physically fit soldier trained in combat survivability skills, combat techniques, individual weapons, and prepared to perform NBC detection/identification, and decontamination operations.

Instruction: To train in general military subjects and selected tasks.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/95).

AR-0801-0031

CHEMICAL OPERATIONS SPECIALIST, PHASE 2

Course Number: 54B10OSUT (ST2).

Location: Chemical School, Ft. McClellan, AL.

Length: 10 weeks (539 hours).

Exhibit Dates: 11/93-Present.

Learning Outcomes: Upon completion of the course, the student will be a well-disciplined, motivated, and physically fit soldier trained in combat survivability skills, combat techniques, and SL1 chemical MOS skills.

Instruction: Instruction includes training in tasks necessary to perform map reading/land navigation, M60 and .50 caliber machine gun firing; chemical, biological, and radiological missions; decontamination, and smoke generator operation.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/95).

AR-0801-0032

CHEMICAL OPERATIONS SPECIALIST (AITS
INSERTS)

Course Number: 494-54B10-OSUT.

Location: Chemical School, Ft. McClellan, AL.

Length: 11-12 weeks (441 hours).

Exhibit Dates: 11/93-Present.

Learning Outcomes: Upon completion of the course, the student will be a self-disciplined, motivated, and physically fit soldier trained in combat survivability skills, combat techniques, individual weapons, and prepared to perform NBC detection/identification, and decontamination operations.

Instruction: Instruction includes training in tasks necessary to perform map reading/land navigation, M60 and .50 caliber machine gun firing; chemical, biological, and radiological missions; decontamination, and smoke generator operation.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/95).

Related Occupations: 54B.

AR-0801-0033

CHEMICAL OPERATIONS SPECIALIST

Course Number: 54B10OSUT.

Location: Chemical School, Ft. McClellan, AL.

Length: 18 weeks (867-868 hours).

Exhibit Dates: 11/93-Present.

Learning Outcomes: Upon completion of the course, the student will be provided with basic soldierization skills and subjects; combat skills and techniques; radiological defense; chemical and biological defense; decontamination; smoke operations; driver's training; exer-

cises; and chemical specialist training advancement recognition program.

Instruction: Instruction includes training on soldierization; combat skills; chemical and biological defense; and chemical specialist training.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/95).

AR-0801-0034

ARMY MEDICAL DEPARTMENT (AMEDD)
NONCOMMISSIONED OFFICER (NCO) BASIC

Course Number: 6-8-C40 (91K).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 3 weeks (120 hours).

Exhibit Dates: 4/95-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage a laboratory effectively; and apply advanced concepts of clinical chemistry microscopy and microbiology.

Instruction: Lectures and practical exercises in laboratory management, quality assurance, and safety.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in clinical laboratory management and 2 in clinical laboratory procedures (10/95).

AR-0801-0035

ALCOHOL AND DRUG ABUSE PREVENTION AND
CONTROL PROGRAM

Course Number: 5H-F6/302-F6.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (72 hours).

Exhibit Dates: 3/93-Present.

Learning Outcomes: Upon completion of the course, the student will be able to initiate a program in alcohol and drug abuse prevention as well as to provide directors of such program with principles and administration of the clinical aspects.

Instruction: Methods of instruction include discussion of policies and regulations pertaining to management and responsibilities of ADAPCP program, with emphasis on current and future trends.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in health care administration seminar (10/95).

AR-0802-0001

TECHNICAL ESCORT

Course Number: 2E-ASI5J/494-ASI5J; 494-F3; 2E-F21; 2E-SI5J/494J5; 2E-SI5J/494-ASI5J.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 4-5 weeks (131-168 hours).

Exhibit Dates: 1/90-9/92.

Objectives: To train enlisted personnel as technical escorts for hazardous materials.

Instruction: Lectures and practical experience in the handling of hazardous materials. Topics include the packaging and storing of chemical, biological, and radiological agents; the effects of these agents on humans; safety precautions; and the use of instruments to measure radiation.

Credit Recommendation: In the vocational certificate category, 3 semester hours in hazardous materials handling (10/90).

Related Occupations: 411A, 4514, 54B, 54D, 54E, 55D.

AR-0802-0002

EXPLOSIVE ORDNANCE DISPOSAL, PHASE I

Course Number: 431-413.1; 431-55D20; 431-55D10, 4E-F3, 4E-F3/431-55D20.

Location: Chemical School, Ft. McClellan, AL; Missile and Munitions School, Redstone Arsenal, AL.

Length: 2-3 weeks (72-76 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel and commissioned officers in the disposal of chemical and biological agents found in unexploded ordnance.

Instruction: Lectures and practical exercises in explosive ordnance disposal. Instruction includes biological agents; chemical and biological defense; recognition of the chemical, physical, and the physiological effects on the body; and treatment procedures for personnel exposed to chemical agents. Upon completion, the student will be able to identify biological materials and chemical munitions; perform leak sealing, packaging procedures; dispose of chemical and biological materials. Instruction includes chemical agents and compounds, biological materials, decontaminants, and protective clothing.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (5/86).

Related Occupations: 55D.

AR-0802-0019

NUCLEAR WEAPONS TECHNICIAN

Course Number: 4-9-C32-260A0.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 5-6 weeks (199 hours).

Exhibit Dates: 1/90-1/96.

Objectives: To provide warrant officers with the technical training to qualify them in new maintenance techniques and management procedures of special ammunition units.

Instruction: Lectures and practical exercises in leadership, training management, electronic warfare and nuclear fundamentals.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (4/86).

Related Occupations: 260A.

AR-0802-0020

FIRST SERGEANT

Course Number: *Version 1:* 521-SQIM. *Version 2:* 521-SQIM.

Location: *Version 1:* Sergeants Major Academy, Ft. Bliss, TX. *Version 2:* Sergeants Major Academy, Ft. Bliss, TX; McGraw Barracks, Munich, W. Germany.

Length: *Version 1:* 4-5 weeks (174-175 hours). *Version 2:* 8 weeks (257 hours).

Exhibit Dates: *Version 1:* 10/91-Present. *Version 2:* 1/90-9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to supervise units of up to 200 personnel. *Version 2:* Upon completion of the course, the student

will be able to supervise units of up to 100 personnel.

Instruction: *Version 1:* Includes lectures, seminars, demonstrations, and performance exercises in safety, stress management, diversity, substance abuse, maintenance and control of equipment, motivation, leadership skills, and computer and verbal skills. *Version 2:* Includes lectures, seminars, demonstrations, and performance exercises in safety, stress management, substance abuse, maintenance and control of equipment, motivation, leadership skills, and written and verbal skills.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in material management and 2 in fundamentals of communication (6/95); in the upper-division baccalaureate category, 1 semester hour in human resource management (6/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in health and fitness, 1 in supply management, 1 in fundamentals of communication (9/87); in the upper-division baccalaureate category, 1 semester hour in human resource management (9/87).

AR-0802-0021

AMMUNITION TECHNICIAN TECHNICAL AND TACTICAL CERTIFICATION

Course Number: 4E-910A.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 9-10 weeks (331-376 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will demonstrate the technical skills necessary to perform duties as an ammunition supply technician.

Instruction: Lectures, discussion, and role playing in conventional and chemical munitions, the Standard Army Ammunition System, software to control supply of munitions, and munitions safety and storage.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (1/91).

Related Occupations: 411A; 910A.

AR-0802-0022

AMMUNITION TECHNICIAN SENIOR WARRANT OFFICER

(Ammunition Technician Warrant Officer Advanced)

Course Number: 4-9-C32-411A0; 4-9-C32-910A.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 5-10 weeks (188-350 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform management function and procedures in conventional and special ammunition units.

Instruction: Lectures, discussions, role playing and films in leadership in military units, Soviet/Warsaw Pact threat, ammunition management, and storage and space management for ammunition.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (8/91).

Related Occupations: 411A.

AR-0802-0025

NUCLEAR AND CHEMICAL TARGET ANALYSIS

Course Number: 2E-ASI5H-A.

Location: Field Artillery School, Ft. Sill, OK.

Length: 3 weeks (146 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to analyze and provide predictive data about nuclear and chemical detonations, use semi-logarithmic graphs, nomograms, tabular data and probability statistics, compute characteristics of overall effects, using prescribed techniques and processes.

Instruction: Lectures and practical exercises in the fundamental effects of nuclear weapons, damage estimation and target analysis; chemical weapons employment and the tactical application of nuclear and chemical weapons; nuclear and chemical trends and developments; foreign nuclear, biological, and chemical capabilities; math formulas, nomograms, semi-logarithmic graphs, circular map scales, and slide rule, and probability statistics.

Credit Recommendation: In the vocational certificate category, 1 semester hour in applied mathematics (6/89); in the lower-division baccalaureate/associate degree category, 1 semester hour in nuclear technology and 2 in nuclear safety and damage estimation (6/89).

AR-0802-0026

MUNITIONS/HAZARDOUS MATERIALS FIRE FIGHTING

Course Number: C3AZR57150 001.

Location: Training Center, Chanute AFB, IL.

Length: 1-2 weeks (52 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to identify and classify various hazardous materials emergencies and plan and control hazardous materials emergencies.

Instruction: Lectures and practical exercises on the above topics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to hazardous materials emergencies (1/93).

AR-0802-0027

SMALL UNIT LEADER'S FORCE PROTECTION

Course Number: 7K-F19.

Location: Safety Center, Ft. Rucker, AL.

Length: 2 weeks (61-62 hours).

Exhibit Dates: 10/95-Present.

Learning Outcomes: Upon completion of the course, the student will know how to develop a unit safety program, manage a reporting system, and institute an active accident prevention program.

Instruction: Group paced instruction for students in supervisory positions over safety and accident prevention programs. Course includes identification and evaluation of hazards as well as developing, implementing and supervising of control measures, force protection requirements, and hazard/accident reporting procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in general safety and 1 in recordkeeping (1/96).

AR-0803-0006**SPECIAL FORCES COMBAT DIVER QUALIFICATION**

Course Number: 2E-SI4W/4Y/011-ASI5W/7W9.

Location: Naval Air Station, Key West, FL.

Length: 4-5 weeks (147-215 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to complete open water dives using open-circuit and closed-circuit equipment in a safe and effective manner.

Instruction: Each successful student completes at least 100 hours of laboratory-based, skill-acquisition activity in scuba diving.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in scuba diving (12/92).

AR-0803-0007**SURVIVAL, EVASION, RESISTANCE, AND ESCAPE (SERE) HIGH RISK**

Course Number: 3A-F38/012-F27.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 3-4 weeks (304-310 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will demonstrate skills in: personal survival techniques, resistance to interrogation and exploitation, and escape and evasion procedures.

Instruction: Course includes 120 hours field training where student executes survival skills, laboratory-based learning activities, and lectures and demonstrations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in survival skills/outdoor pursuits (10/93).

AR-0803-0008**SPECIAL OPERATIONS QUALIFICATION RESERVE COMPONENT PHASE 2**

Course Number: 011-18B30/18C30/18E30/2E-18A.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 3 weeks (177-178 hours).

Exhibit Dates: 1/90–9/90.

Learning Outcomes: Upon completion of the course the student will demonstrate map reading, small boat operations, long-range reconnaissance patrolling, fieldcraft, survival, air operations, endurance, and confidence building requisite to special forces operations.

Instruction: Course material includes map and compass reading, patrolling, fieldcraft, survival, and air operations by means of lectures, demonstrations and laboratories.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in orienteering (12/88).

Related Occupations: 18B; 18C; 18E.

AR-0803-0009**SPECIAL OPERATIONS QUALIFICATIONS RESERVE COMPONENT PHASE 6**

Course Number: 011-18B30/18E30/2E-18A.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 3 weeks (264 hours).

Exhibit Dates: 1/90–9/92.

Learning Outcomes: Upon completion of the course the student will be able to demonstrate knowledge of landing zone operations, drop zone procedures; conduct of an unconventional warfare mission and detachment premission training.

Instruction: Lectures, demonstrations and participation in practical field exercises are used to assure acquisition of requisite knowledge and skills.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/88).

Related Occupations: 18B; 18C; 18E.

AR-0803-0011

1. MASTER FITNESS TRAINING. RESERVE COMPONENT

2. RESERVE COMPONENT MASTER FITNESS TRAINER

(Master Fitness Trainer Reserve Component)

Course Number: *Version 1:* 7B-FS/562-F2. *Version 2:* 7B-F9/562-F4-RC.

Location: *Version 1:* Physical Fitness School, Ft. Benning, GA; Off-site locations, Worldwide. *Version 2:* Soldier Support Institute, Ft. Benjamin Harrison, IN; Off-site locations, Worldwide; Physical Fitness School, Ft. Benning, GA.

Length: *Version 1:* 2 weeks (90 hours). *Version 2:* 2 weeks (97 hours).

Exhibit Dates: *Version 1:* 11/95–Present. *Version 2:* 1/90–10/95.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to design, set-up, and monitor a physical fitness program for a group or an individual. *Version 2:* Upon completion of the course, the student will be able to design, set-up, and monitor a physical fitness program for a group or an individual.

Instruction: *Version 1:* This version is pending evaluation. Course includes lectures and practical exercises in the science of human anatomy and physiology, body composition, exercise assessment, nutrition, stress management, exercise techniques and games, and the organization of group and individual fitness and exercise programs. *Version 2:* Course includes lectures and practical exercises in the science of human anatomy and physiology, body composition, exercise assessment, nutrition, stress management, exercise techniques and games, and the organization of group and individual fitness and exercise programs.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to health and recreation (7/92).

AR-0803-0012**MASTER FITNESS TRAINER**

Course Number: *Version 1:* 7B-FS/562-F2. *Version 2:* 7B-F7/562-F2; 7B-SI6P/562-ASIP5.

Location: *Version 1:* Physical Fitness School, Ft. Benning, GA; Off-site locations, Worldwide. *Version 2:* Soldier Support Institute, Ft. Benjamin Harrison, IN; Off-site locations, Worldwide; Physical Fitness School, Ft. Benning, GA.

Length: *Version 1:* 2 weeks (88 hours). *Version 2:* 4 weeks (131-154 hours).

Exhibit Dates: *Version 1:* 11/95–Present. *Version 2:* 1/90–10/95.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to design, set-up, and monitor a physical fitness program for groups or for an individual. *Version 2:* Upon completion of the course, the student will be able to design, set-up, and monitor a physical fitness program for groups or for an individual.

Instruction: *Version 1:* This version is pending evaluation. Course includes lectures and practical exercises in the science of human anatomy and physiology, body composition, exercise assessment, nutrition, stress management, exercise techniques and games, and the organization of groups and individual fitness and exercise programs. *Version 2:* Course includes lectures and practical exercises in the science of human anatomy and physiology, body composition, exercise assessment, nutrition, stress management, exercise techniques and games, and the organization of groups and individual fitness and exercise programs.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 4 semester hours in exercise science of which 2 are specifically in exercise science laboratory, or 3 semester hours in introduction to health and recreation (7/92).

AR-0803-0013**SPECIAL OPERATIONS TRAINING**

Course Number: 2E-F132/011-F45.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 4 weeks (208-209 hours).

Exhibit Dates: 10/93–Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide specialized and comprehensive instruction and training in tactics and techniques and conduct direct action and unilateral special operations by Special Operations Forces.

Instruction: Includes lecture and practical exercises on survival, evasion, escape, resistance, and aviation-related materials.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in survival skills/outdoor pursuits (12/92).

AR-0803-0014**WATERBORNE INFILTRATION**

Course Number: 2E-F138/011-F47.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 6 weeks (345-348 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will perform individual surface swimming techniques, team surface swimming techniques, surface swimming planning; small boat operations, kayak operations, maintenance and field repair of small boats, kayaks, and outboard engines; infiltration planning, rubber duck operations, nautical charts reading and intermediate delivery systems for insertion and extraction.

Instruction: Lectures and practical exercises in surface swimming techniques, team surface swimming, surface swimming planning considerations; small boat operations and kayak operations; nautical charts reading; intermedi-

ate delivery systems for insertion and extraction.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in swimming, 1 in sailing, and 2 in orienteering (12/92).

AR-0803-0015

SURVIVAL, EVASION, RESISTANCE, AND ESCAPE
(SERE) INSTRUCTOR QUALIFICATION

Course Number: O12 F-19

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC

Length: 5 weeks (338-339 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will have completed intensive training in support of the code of conduct, survival fieldcraft with application to worldwide environments, and techniques of evasion, resistance to interrogation and exploitation and escape from captivity. The student will also participate in a survival exercise and in a resistance training laboratory.

Instruction: Lecture and practical exercises in survival, evasion, resistance, escape and resistance training laboratory.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in survival skills/outdoor pursuits (12/92).

AR-0804-0003

MOUNTAINEERING WINTER

Course Number: None.

Location: National Guard Mountain Warfare School, Ethan Allen Firing Range, Jericho, VT.

Length: 2-3 weeks (179 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to navigate during winter climatic conditions in a mountainous environment including areas where substantial snowfall is common as well as in areas with significant glacial formations, using traditional and altimeter navigational techniques. Further, the student will demonstrate proficiency in specialized mountaineering techniques in areas characterized by rugged peaks, step ridges, deep ravines and valleys during winter climatic conditions. The student will also master survival skills for severe winter conditions.

Instruction: Lectures, demonstrations, and a heavy emphasis on performance experiences and practical exercises dealing with skills of traditional and altimeter navigational techniques, mountaineering techniques, and severe cold weather survival methods.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in orienteering, and 3 in mountaineering/winter survival (3/92).

AR-0804-0004

MOUNTAINEERING SUMMER

Course Number: None.

Location: National Guard Mountain Warfare School, Ethan Allen Firing Range, Jericho, VT.

Length: 2-3 weeks (172-173 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to navigate during periods of limited visibility in special environments, such as northern regions and deserts as well as mountainous regions, using both traditional land navigation methods and altimeter navigation. Furthermore, the student will demonstrate proficiency in the fundamentals, principles, and techniques of mountaineering that will provide access to otherwise inaccessible rugged mountainous terrain.

Instruction: Lectures, demonstrations, and a heavy emphasis on performance experiences and practical exercises dealing with skills of traditional and altimeter navigational techniques and military activities in rugged mountainous terrain.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in orienteering, and 1 in mountaineering (3/92).

AR-1115-0010

BASIC STATISTICS FOR LOGISTICS MANAGEMENT

Course Number: ALM-63-0449; ALMC-BA.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management Center, Ft. Lee, VA.

Length: Self-paced, 2-3 weeks (82 hours).

Exhibit Dates: 1/90-9/93.

Objectives: To develop and increase knowledge and understanding of statistics as applied to logistics management.

Instruction: Self-paced individualized instruction in the areas of descriptive statistics, concepts and methods, inferential statistics, time series analysis, and simple linear regression. This course stresses basic statistical skills, and emphasis is placed on developing the ability to understand, apply, and analyze statistics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in statistics (12/91).

AR-1115-0012

RESOURCE MANAGEMENT QUANTITATIVE

Course Number: 7D-F25/541-F9; 7D-F25.

Location: Finance School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 1-2 weeks (67 hours).

Exhibit Dates: 1/90-12/91.

Learning Outcomes: Upon completion of the course, the student will be able to initiate the use of statistical measures including descriptive statistics, inference, regression analysis, PERT and economic analysis using PC computer.

Instruction: Topics covered include descriptive measures, normal curve, statistical sampling, determination of sample size, population inferences, Lotus spreadsheet, regression analysis, goodness of fit, PERT, and present value.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introductory statistics (12/88).

AR-1115-0013

BATTLEFIELD SPECTRUM MANAGEMENT

Course Number: 4C-SI5D/260-ASID9.

Location: Signal School, Ft. Gordon, GA.

Length: 4-5 weeks (158-159 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will apply principles of mathematics, wave propagation, transmission lines, and antennas to the coordination, planning, engineering, and controlling of theater radio frequencies.

Instruction: Lectures and practical exercises on topics in mathematics and electronic communications and their applicability to the battlefield.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in technical mathematics and 2 in electronic communications (6/90).

AR-1115-0014

OPERATIONS RESEARCH AND SYSTEMS ANALYSIS
(ORSA) FAMILIARIZATION BY
CORRESPONDENCE

(Introduction to Operations Research Systems Analysis by Correspondence)

Course Number: ALMC-SC.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: Maximum, 52 weeks.

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will understand basic operations research and standard techniques and will be able to apply them to simple problems.

Instruction: This correspondence instruction consists of reading the assigned chapters in text books and completing assigned homework. Topics include probability and statistics, and a range of basic operations research techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in statistics (6/91); in the upper-division baccalaureate category, 1 semester hour in operations research (6/91).

AR-1205-0006

ARMY BAND ADVANCED NONCOMMISSIONED
OFFICER (NCO) PHASE 2

Course Number: 450-97-C42.

Location: School of Music, Little Creek, Norfolk, VA.

Length: 8-12 weeks (214-290 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to rehearse the band, lead ensembles, and train enlisted Army musicians in technical skills and duties.

Instruction: Topics include leading ensembles, dance bands, and stage bands in rehearsal and performance; analyzing scores for form, style, voicing, instrumentation, and harmony; supervising the band; administration, operation, and supply.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, see AR-1404-0035 for common core credit (2/93); in the upper-division baccalaureate category, 1 semester hour in band administration (2/93).

AR-1205-0008

RESERVE COMPONENT ARMY BAND ADVANCED
NONCOMMISSIONED OFFICER (NCO),
PHASE 2

Course Number: 450-97-C42-RC.

Location: School of Music, Little Creek, Norfolk, VA.

Length: 2 weeks (72 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will exhibit the technical skills and duties required of an advanced non-commissioned officer, including advanced rehearsal techniques (concert, stage, and marching bands).

Instruction: The course is comprised of instruction on advanced rehearsal techniques including concert band rehearsal, stage band rehearsal, and marching band drill.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, see AR-2201-0338 for common core credit (4/93); in the upper-division baccalaureate category, 2-3 semester hours in advanced conducting/advanced rehearsal techniques (4/93).

AR-1205-0009

1. BANDMASTER WARRANT OFFICER ADVANCED

2. BANDMASTER SENIOR WARRANT OFFICER TRAINING

Course Number: *Version 1:* 7-51-C32. *Version 2:* 7-51-C32.

Location: School of Music, Little Creek, Norfolk, VA.

Length: *Version 1:* 2 weeks (72 hours). *Version 2:* 2 weeks (72 hours).

Exhibit Dates: *Version 1:* 3/96–Present. *Version 2:* 3/91–2/96.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to lead and conduct U.S. Army bands with advanced technical proficiency and assume advanced level assignments as an Army bandleader. *Version 2:* Upon completion of the course, the student will be able to lead and conduct U.S. Army bands with advanced technical proficiency and assume advanced level assignments as an Army bandleader.

Instruction: *Version 1:* This version is pending evaluation. Lectures, discussions, and practical applications in the following topics: problems and solutions of the modern senior bandmaster; equipment modernization for Army bands; show production/choreography; sound reinforcement procedures; advanced concert band conducting/music literature; band audition techniques (refresher). *Version 2:* Lectures, discussions, and practical applications in the following topics: problems and solutions of the modern senior bandmaster; equipment modernization for Army bands; show production/choreography; sound reinforcement procedures; advanced concert band conducting/music literature; band audition techniques (refresher).

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in music recording and show productions (applicable to collegiate programs such as music theater, music merchandising, etc., or as a music elective in other programs); in the graduate degree category, 2 semester hours in instrumental (band) conducting (2/93); in the graduate degree category, 2 semester hours in instrumental (band) conducting (2/93).

AR-1205-0010

BANDMASTER WARRANT OFFICER BASIC

(Warrant Officer Basic)

(Bandmaster/Warrant Officer Technical and Tactical Certification)

Course Number: 7N-420C.

Location: School of Music, Little Creek, Norfolk, VA.

Length: 21 weeks (756 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to rehearse and conduct a military concert band and a stage/dance band; compose, arrange, and transcribe music for a military concert band and a stage/dance band; train a military marching band; administer a military music command; execute administrative, managerial, and supply duties necessary to units and commands; manage technical band operations as a bandmaster/commander; perform as a bandmaster in secondary mission tasks; assess student progress and the quality and effectiveness of instruction.

Instruction: Training in the following areas: instrumental methods (brass, woodwind, and percussion); concert/stage band conducting; style analysis, ear training, sight singing, and keyboard techniques; composition skills (harmony, counterpoint, band scoring, march composition, and arranging for concert/stage band); band performance (drum majoring and marching band instructional techniques, and leading the marching band in military ceremonies); Army band management (unit administration, supply procedures, budget development, and technical operations); military leadership as applied to human relations, counseling, drug abuse, military law, military justice, discipline, and physical fitness; administering band auditions; company-level command principles and procedures; officer indoctrination.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in instrumental conducting, 3 in instrumental arranging, 1 in performing ensembles (marching band), and 3 in band administration (as an elective) (6/96).

AR-1205-0011

ARMY BAND OFFICER

Course Number: 7N-C42.

Location: School of Music, Little Creek, Norfolk, VA.

Length: 6 weeks (216 hours).

Exhibit Dates: 1/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to function effectively as an Army band officer.

Instruction: Topics include advanced conducting and rehearsal techniques; stage band, concert band, and ceremonial conducting; jazz style; music arranging, scoring, and composing techniques; piano proficiency; ear training; counterpoint; harmony; score analysis; formulating stylistic interpretation of selected works; staff band officer duties; technical inspections; review of School of Music courses; administering band auditions; technical band operations; budget and supplies; and marching band/military ceremonies.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in keyboard harmony and 1 in ear training/sight singing (2/93); in the upper-division baccalaureate category, 1 semester hour in principles of management and 3 in arranging (concert band, stage band, marching band) (2/93); in the graduate degree category, 3 semester hours in instrumental (band) conducting (2/93).

AR-1205-0012

ARMY BAND BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 450-02B-02U30.

Location: School of Music, Little Creek, Norfolk, VA.

Length: 7-8 weeks (260-288 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to exhibit the technical skills and duties of a band non-commissioned officer, including: rehearsal techniques for a concert/stage band; drum major techniques; squad leader duties in the secondary mission; supply, administration, and operations; understanding of the historical element of the Army band; to identify the NCO's role as it relates to Army bands; conduct a field training exercise.

Instruction: Block instruction covering the following topics: elements of music theory/harmony; form and analysis; ear training; conducting; rehearsal techniques; applied music; ensembles (traditional and jazz); marching band drill and mace techniques; establishing and supervising a dismount point; band administration; military branch history; and military field training exercise.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (2/93); in the upper-division baccalaureate category, 2-4 semester hours in advanced conducting/rehearsal techniques (2/93).

Related Occupations: 02B; 02C; 02D; 02E; 02F; 02G; 02H; 02J; 02K; 02L; 02M; 02N; 02S; 02T; 02U.

AR-1205-0013

RESERVE COMPONENT ARMY BAND BASIC
NONCOMMISSIONED OFFICER (NCO),
PHASE 2

Course Number: 450-02B-02U30-RC.

Location: School of Music, Little Creek, Norfolk, VA.

Length: 2 weeks (72 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will exhibit the technical skills and duties required of a basic noncommissioned officer, including: rehearsal techniques for concert/stage band; mace signals for marching drill; and establishing and supervising a dismount point.

Instruction: The course is comprised of block instruction covering the following topics: elements of music voice leading; form/analysis chord progression; rhythmic analysis; conducting rehearsal techniques; mace techniques for marching band drill; voice commands for marching band; augmenting the military police by establishing and supervising a dismount point.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, see AR-2201-0337 for common core credit (2/93); in the upper-division baccalaureate category, 2 semester hours in advanced conducting/rehearsal techniques (2/93).

AR-1303-0004

SECONDARY REFERENCE LABORATORY SPECIALIST

Course Number: G2ASR32470 016.

Location: Technical Training Center, Lowry AFB, CO

Length: 16 weeks (622-624 hours)

Exhibit Dates: 1/90–Present

Learning Outcomes: Upon completion of the course the student will be able to perform basic mathematical computations related to error analysis; utilize secondary standards of length to calibrate gage blocks, micrometers etc.; apply secondary standards to calibrate torque measuring instrumentation, pressure, vacuum, resistance, capacitance; apply secondary standards to calibrate frequency counters; as well as trace errors in secondary standards to primary standards at the National Bureau of Standards.

Instruction: Course includes instruction and practical exercises in the calibration and use of secondary standards of mass, length, time, resistance, voltage, spectral content of lasers, pressure and allied items.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in error analysis and 3 in applied physics (11/91).

AR-1304-0008

FIELD ARTILLERY METEOROLOGICAL
CREWMEMBER/NonCOMMISSIONED OFFICER
(NCO) ADVANCED

Course Number: 420-93F40.

Location: Field Artillery School, Ft. Sill, OK.

Length: 5-7 weeks (177-252 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide enlisted personnel with the knowledge of the supervisory responsibilities and techniques for the installation, operation and maintenance of the field artillery meteorology section.

Instruction: Lectures and practical experiences in positioning the meteorological section, learning teaching techniques for personnel training, and using test equipment and tools to adjust and maintain the section equipment.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (1/92).

Related Occupations: 93F.

AR-1304-0009

MARINE ARTILLERY OPERATIONS CHIEF

Course Number: 250-0848.

Location: Field Artillery School, Ft. Sill, OK.

Length: 13-14 weeks (506 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform technical duties in fire direction, artillery meteorology, surveying, targeting, fire support coordination, fire planning, and observed fire.

Instruction: Lecture and practical exercises on computation of firing data, operating procedure of the Backup Computer System (BUCS), firing charts, surveying, ballistics, meteorology, and targeting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in meteorology and 1 in surveying (6/89).

AR-1304-0010

FIELD ARTILLERY METEOROLOGICAL
CREWMEMBER/BASIC NonCOMMISSIONED
OFFICER (NCO)

Course Number: 420-93F30

Location: Field Artillery School, Ft. Sill, OK.

Length: 5-7 weeks (175-260 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to serve as meteorological shift supervisor to support division artillery firing battalions.

Instruction: Lectures and practical exercises in the RAWIN system for upper air measurements, computer analysis of RAWIN data to produce ballistic temperatures and densities, evaluation and quality control of derived data, plus a review of management, maintenance and leadership techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in meteorological measurements. See AR-1406-0090 for common core credit (1/92).

AR-1304-0011

FIELD ARTILLERY METEOROLOGICAL CREWMEMBER

Course Number: Version 1: 420-93F10.
Version 2: 420-93F10.

Location: Field Artillery School, Ft. Sill, OK.

Length: Version 1: 9-10 weeks (328-349 hours). Version 2: 13 weeks (513 hours).

Exhibit Dates: Version 1: 10/91–Present.
Version 2: 1/90–9/91.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to install and operate meteorological measuring equipment needed to produce required data for calculation of meteorological effects on artillery ballistics. Version 2: Upon completion of the course, the student will be able to install and operate meteorological measuring equipment needed to produce required data for calculation of meteorological effects on artillery ballistics.

Instruction: Version 1: Lectures and laboratory exercises utilizing both actual equipment and computer simulations. Topics covered include basic communications, use and set up of radio equipment; basic meteorology; and the operation and use of meteorological equipment such as anemometers, psychometers, barometers, radiosondes; and a meteorology data set and measuring set. Version 2: Lectures and laboratory exercises utilizing both actual equipment and computer simulations. Topics covered include basic communications, use and set up of radio equipment; basic meteorology; and the operation and use of meteorological equipment such as anemometers, psychometers, barometers, radiosenders; and a meteorology data set and measuring set.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in basic meteorology (9/94); in the upper-division baccalaureate category, 1 semester hour in meteorological instruments (9/94). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours basic meteorology (9/94); in the upper-division baccalaureate category, 1 semester hour in meteorological instruments (9/94).

Related Occupations: 93F.

AR-1304-0012

FIELD ARTILLERY METEOROLOGICAL
CREWMEMBER/RESERVE

Course Number: 420-93F10-RC

Location: Field Artillery School, Ft. Sill, OK.

Length: 9-10 weeks (328-349 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to install and operate meteorological measuring equipment needed to produce required data for calculation of meteorological effects on artillery ballistics.

Instruction: Lectures and laboratory exercises utilizing both actual equipment and computer simulations. Topics covered include basic communications; use and set up of radio equipment; basic meteorology; and the operation and use of meteorological equipment such as anemometers, psychometers, barometers, radiosondes; and a meteorology data set and measuring set.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours basic meteorology (9/94); in the upper-division baccalaureate category, 1 semester hour in meteorological instruments (9/94).

Related Occupations: 93F.

AR-1401-0021

1. COST ACCOUNTING STANDARDS WORKSHOP
2. DEPARTMENT OF DEFENSE (DOD) COST ACCOUNTING STANDARDS WORKSHOP
(Cost Accounting Standards Workshop)

Course Number: Version 1: CON 233. Version 2: ALM-36-0217; ALMC-CE.

Location: Army Logistics Management College, Ft. Lee, VA; Army Logistics Management College, Onsite at various locations.

Length: Version 1: 2 weeks (75-76 hours).
Version 2: 2 weeks (74 hours).

Exhibit Dates: Version 1: 10/93–Present.
Version 2: 1/90–9/93.

Learning Outcomes: Version 1: Upon completion of the course, the student will have been instructed in the utilization of cost accounting standards used in connection with defense contracts. Version 2: Upon completion of the course, the student will have been instructed in the utilization of cost accounting standards used in connection with defense contracts.

Instruction: Version 1: Lectures/conferences and practical exercises on the latest regulations of the Cost Accounting Standards Board. Version 2: Lectures/conferences and practical exercises on the latest regulations of the Cost Accounting Standards Board.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 2 semester hours in cost accounting standards (8/95). Version 2: In the upper-division baccalaureate category, 2 semester hours in cost accounting standards (10/90).

AR-1401-0022

INTERNAL REVIEW

Course Number: RM415.

Location: Combined Arms Training Center, Munich, W. Germany.

Length: 2 weeks (70 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide accountants/auditors with an orientation of the requirements for

auditing within federal agencies; specifically appropriated/non-appropriated fund accounting systems.

Instruction: This course provides specialized audit standards, terminology, survey of verification techniques, workpapers preparation, appropriated/ non-appropriated fund control verification, follow-up reviews and communications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in business report writing and 1 in auditing practices (10/80).

AR-1401-0029

ADVANCED NONCOMMISSIONED OFFICER (NCO)
MOS 73C/D

Course Number: 7-71-C42.

Location: Institute for Personnel and Resource Management, Ft. Benjamin Harrison, IN.

Length: 5-17 weeks (168-444 hours).

Exhibit Dates: 1/90-12/91.

Objectives: To provide selected personnel with advanced leadership skills, military subjects, and communication skills for effective supervision of specific MOS tracks.

Instruction: Lectures and practical exercises in a basic core including written and oral communication, management principles, unit training, and combat survival. MOS options are as follows: recruitment and reenlistment, equal opportunity, club management, legal topics, chaplain assisting, and data processing.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (3/81).

Related Occupations: 73C.

AR-1401-0030

BASIC INTERNAL AUDIT
(Management Audit Level 1 Basic)

Course Number: None.

Location: National Guard Bureau Management Auditor School, Aberdeen, MD.

Length: 2 weeks (65-70 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to identify auditing tools; identify elements in an audit to include: auditing techniques, elementary statistical sampling, flow charting, field work and problem solving, organize findings, and effective communication of findings.

Instruction: Lectures, discussion and practical exercises in: auditing tools, auditing standards, auditing techniques, statistical techniques, audit documentation, and presentation of findings and recommendations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in operational auditing (basic) (5/88).

AR-1401-0031

INTERMEDIATE INTERNAL AUDIT
(Management Audit Level 2 Intermediate)

Course Number: None.

Location: National Guard Bureau Management Auditor School, Aberdeen, MD.

Length: 2 weeks (65-74 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to apply

human relations principles; expand the use of auditing tools and techniques; understand the role of the audit team leader; and organize and conduct an audit.

Instruction: Lectures, discussion and practical exercises in: human relations, audit team management, analytical techniques, audit simulation, and presentation of audit findings and recommendations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in operational auditing and 1 in human relations in management (5/88).

AR-1401-0032

MATERIEL CONTROL AND ACCOUNTING SPECIALIST
ADVANCED INDIVIDUAL TRAINING

Course Number: 551-76P10.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 8 weeks (288 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to establish stock record accounts, and process documents for the materiel supply function, including use of both a manual and an automated standard supply system.

Instruction: Lectures, demonstrations, and practical exercises in processing supply documents, and in posting to and maintaining stock record accounts. Topics include utilization of automated supply procedures, determination of stockage criteria, diskette and tape handling, and diskette processing.

Credit Recommendation: In the vocational certificate category, 3 semester hours in records processing (10/88); in the lower-division baccalaureate/associate degree category, 1 semester hour in keyboarding (10/88).

Related Occupations: 76P.

AR-1401-0033

FINANCE SPECIALIST

Course Number: *Version 1:* 542-73C10 (ST); 542-73C10. *Version 2:* 542-73C10 (ST); 542-73C10.

Location: Finance School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 7-8 weeks (244-296 hours). *Version 2:* 7-8 weeks (244-296 hours).

Exhibit Dates: *Version 1:* 4/91-Present. *Version 2:* 1/90-3/91.

Learning Outcomes: *Version 1:* Upon completion of the course the student will be able to determine pay status and adjustments; compute payroll and travel allowances; prepare payroll and travel vouchers; process pay inquiries; and access and input data on computer. *Version 2:* Upon completion of the course, the student will be able to identify and determine the types of incentive pay plans, prepare pay vouchers, complete pay documents, and compute pay allowances.

Instruction: *Version 1:* Methods of instruction include lecture, role playing, and in-class exercises. Topics covered include financial operations and payroll processing. *Version 2:* Methods of instruction include lecture, role playing, and in-class exercises. Topics covered include financial operations, data entry operations, and payroll processing.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in payroll account-

ing and 1 in computer applications (12/91). *Version 2:* In the vocational certificate category, 2 semester hours in payroll accounting (4/91); in the lower-division baccalaureate/associate degree category, 1 semester hour in computer applications (4/91).

Related Occupations: 73C.

AR-1401-0034

MILITARY ACCOUNTING

Course Number: 7D-44B/541-F4; 7D-44A/541-F4; 7D-F32/541-F4.

Location: Finance School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 3-5 weeks (145-165 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to use generally accepted accounting principles in government fund accounting, define basic comptrollership functions, outline the elements of the budgeting process, reconcile cash, use subsidiary ledgers, identify and correct errors and record year end adjusting transactions.

Instruction: Methods of instruction include lectures and class exercises. Topics covered include program planning and budgeting, accounting classifications, funds receipt and disbursement, administration controls, non-appropriated funds, reimbursement concepts and cash classifications.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in governmental accounting (11/91).

AR-1401-0035

1. FINANCE/ACCOUNTING BASIC
NONCOMMISSIONED OFFICER (NCO)
2. FINANCE SPECIALIST BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: *Version 1:* 542-73C/D30; 542-73C30. *Version 2:* 542-73C/D30; 542-73C30.

Location: Finance School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 9-10 weeks (348 hours). *Version 2:* 7-8 weeks (272-280 hours).

Exhibit Dates: *Version 1:* 10/91-Present. *Version 2:* 1/90-9/91.

Learning Outcomes: *Version 1:* Upon completion of the course the student will be able to prepare, review, distribute, and maintain payroll records; computer travel vouchers; develop accounting statements; and prepare financial statements. *Version 2:* Upon completion of the course, the student will be able to review and verify disbursing records, review and compute travel vouchers, develop accountability statements, and prepare financial office reports.

Instruction: *Version 1:* Lectures and applicable exercises are used in the areas of payroll accounting, payroll disbursement, travel vouchers, cash disbursements, and cash accounting. *Version 2:* Methods of instruction include lecture, exercises and class discussions. Topics covered include payroll accounting, accounting classifications, cash reconciliations, and accounting documents.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in payroll accounting (12/91); in the upper-division baccalaureate category, 2 semester hours in governmental accounting (12/91). *Version 2:* In the vocational certificate category, 2 semester hours in payroll

accounting (12/88); in the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (12/88); in the upper-division baccalaureate category, 2 semester hours in governmental accounting (12/88).

Related Occupations: 73C.

AR-1401-0036

CENTRAL ACCOUNTING OFFICER

Course Number: 7D-F15

Location: Finance School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 2 weeks (77 hours)

Exhibit Dates: 1/90-12/91

Learning Outcomes: Upon completion of the course, the student will be able to outline the basic concepts and codes of unappropriated grants, work with automated accounting systems, analyze financial statements, and prepare budgets.

Instruction: Methods of instruction include lectures, case studies, and in-class exercises. Topics of discussion include unappropriated funds, financial statements, comparative relationships, budget planning and internal controls.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in government accounting, 1 in financial statement analysis (12/88).

AR-1401-0037

DISBURSING OPERATIONS

Course Number: 7D-F18/542-F8.

Location: Finance School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 2 weeks (74 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to maintain cash books, review collection and disbursement vouchers, process overages, and process cancelled checks.

Instruction: Lectures, classroom discussion, and practical exercises in cash and check collection, disbursement vouchers, deposits and reconciliation statements, imprest funds transactions, and accountability statements.

Credit Recommendation: In the vocational certificate category, 1 semester hour in disbursement operations (11/91).

AR-1401-0038

RESOURCE MANAGEMENT BUDGET

Course Number: 7D-F23.

Location: Finance School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 2 weeks (71 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage funds flow, implement control functions, coordinate the approval process, implement the procurement function, and recommend adjustments.

Instruction: Instruction methods include lecture, class participation, and role playing. Topics covered include budget planning and implementation, funded and nonfunded expenses and budget review and analysis.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in budget application (11/91).

AR-1401-0041

ACCOUNTING SPECIALIST

Course Number: 541-73D10

Location: Finance School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 8-9 weeks (332 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to apply generally accepted accounting principles in governmental fund accounting; use a detailed coding procedure, process expenditures, reimbursement and miscellaneous transactions; describe the basic organizational structure in government accounting; and use the correct forms and format in fund accounting.

Instruction: Method of instruction consists of lectures, in-class exercises; topics covered include expenditures and reimbursements, commercial accounts, fiscal codes and budget execution.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in governmental fund accounting (11/91).

AR-1401-0042

BUDGET

Course Number: 800.

Location: Reserve Readiness Training Center, Ft. McCoy, WI.

Length: 2 weeks (64 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to implement the basic principles of planning, programming, budgeting, and execution system (PPBES) as it applies to a major reserve unit.

Instruction: Topics covered: basic principles and applications of financial management, including the programming, budgeting, and execution system; Army management, manpower, and automated ledger and budget concepts; budget procedures to include interfund transfers, requirements-based budget preparation and fund distribution, rules of obligation, cost estimating, budget processing to include reading and interpreting automated fund control reports, budget execution and tracking, determining status of operating resources, completion of year-end close.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in budgeting or financial management (7/89).

AR-1401-0043

BUDGET MANAGEMENT

Course Number: 2300.

Location: Reserve Readiness Training Center, Ft. McCoy, WI.

Length: 2 weeks (50 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to prepare unit budgets for operations and maintenance, and for personnel using proper fund and accounts using PPBES (planning, programming, budgeting and execution systems); identify and interpret accounting classifications and resource codes; identify and interpret funds available for budget construction and expenditures; determine unit need for operations and maintenance and personnel budgets.

Instruction: Reading and lectures in PPBES, reserve appropriations, purchase order and contract management, budgetary procedures, fund controls, automated budget systems fund distributions and budget reconciliation reports; practical exercises in accounting classifications within regulation guidelines, budgetary expenditures and obligations, identification of budget requirements and funds, distribution of funds and budget reconciliation reports.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in budget management (7/89).

AR-1401-0044

CIVILIAN PAYROLL TECHNICIAN

Course Number: 542-F9.

Location: Finance School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 3 weeks (114 hours).

Exhibit Dates: 1/93-Present.

Learning Outcomes: Upon completion of the course the student will be able to process civilian pay vouchers, overtime adjustments, tax appropriations, unemployment compensation, sick leave, annual leave, state and federal withholding, and benefits.

Instruction: Lectures and practical exercises on the subject matter.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in payroll accounting (12/91).

AR-1401-0045

CIVILIAN PAY MANAGEMENT

Course Number: 542-F14.

Location: Finance School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 2 weeks (74 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to supervise the processing of civilian pay vouchers, overtime adjustments, tax appropriations, unemployment compensation, sick leave, annual leave, state and federal withholding, and additional benefits.

Instruction: Lectures and practical applications are used to provide ending competencies.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in payroll accounting (12/91).

AR-1401-0046

FINANCE OFFICER ADVANCED NONRESIDENT/
RESIDENT RESERVE COMPONENT PHASES 1
AND 3

Course Number: 7-14-C23 (Phases 1 and 3).

Location: Finance School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: Phase 1, 2 weeks (73 hours); Phase 3, 2 weeks (77 hours).

Exhibit Dates: 10/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to apply basic accounting principles and procedures; analyze financial statements; and understand accounting systems for specialized situations.

Instruction: Lectures, practical exercises, and case studies on the subject matter.

Credit Recommendation: Credit is not recommended for Phase I because of the military-specific nature of this phase. For Phase III, in the lower-division baccalaureate/associate degree category, 2 semester hours in accounting fundamentals (12/91).

AR-1401-0047

FINANCE OFFICER ADVANCED

Course Number: *Version 1:* 7-14-C22. *Version 2:* 7-14-C22.

Location: Finance School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 20 weeks (762 hours). *Version 2:* 20 weeks (795 hours).

Exhibit Dates: *Version 1:* 10/90–Present. *Version 2:* 1/90–9/90.

Learning Outcomes: *Version 1:* Upon completion of the course the student will be able to use the microcomputer for accounting and financial applications; prepare and administer financial management and control systems; use standard deviation, variance, sampling, and other statistical analysis tools to analyze accounting/financial information; develop pay procedures and apply management review techniques; understand applications of governmental accounting and financial analysis; provide leadership in a line or staff position; communicate effectively in written or oral form. *Version 2:* Upon completion of the course the student will be able to communicate effectively in oral or written form; provide leadership in a line or staff position; use standard deviation, variance, sampling, and other statistical tools to analyze accounting/financial information; prepare and administer financial control systems; use effective listening, speaking and writing skills; supervise commercial accounts section and disbursing financial section.

Instruction: *Version 1:* Lectures, practical exercises and individual and group oral and written presentations. *Version 2:* Lectures and practical exercises. Students choose several electives. Electives are not evaluated individually.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in business communication, 1 in technical writing, 2 in microcomputer applications, and 3 in leadership (12/91); in the upper-division baccalaureate category, 2 semester hours in statistical methods for management, 2 in business and professional speaking, 2 in governmental accounting, and 2 in financial management (12/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in leadership, 2 in business communications, and 2 in micro accounting applications (12/91); in the upper-division baccalaureate category, 2 semester hours in business and professional speaking and 2 in statistical methods for management (12/91).

AR-1401-0048

COMMERCIAL ACCOUNTS ADMINISTRATION

Course Number: 542-F6.

Location: Finance School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 1-2 weeks (58 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to perform receipt examination, to prepare and process

commercial vouchers, and to calculate discounts and interest charges.

Instruction: Lectures and practical exercises on the subject matter.

Credit Recommendation: In the vocational certificate category, 2 semester hours in accounts payable (12/91).

AR-1401-0049

TRAVEL ADMINISTRATION AND ENTITLEMENTS

Course Number: 7D-F30/542-F4.

Location: Finance School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 3 weeks (115 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to determine travel entitlements, travel allowances, determine eligibility, and amount of travel payment.

Instruction: Course methods include lectures and practical exercises.

Credit Recommendation: Credit is not recommended because of the limited, technical nature of the course (12/91).

AR-1401-0050

FINANCE/ACCOUNTING ADVANCED

NONCOMMISSIONED OFFICER (NCO)

Course Number: 542-73D40; 542-73C40; 542-73C/D40.

Location: Soldier Support Center, Ft. Benjamin Harrison, IN.

Length: 8 weeks (292-302 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to apply leadership skills in a first line management position; communicate effectively in writing; and perform basic payroll accounting tasks.

Instruction: Course methods include lectures and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in leadership, 3 in payroll accounting, and 1 in business communications (12/91).

AR-1401-0051

ARMY MANAGEMENT ACCOUNTING AND ANALYSIS

Course Number: 7D-F29/541-F12.

Location: Soldier Support Center, Ft. Benjamin Harrison, IN.

Length: 2 weeks (75 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will understand the role of an Army accountant in the management process and apply basic statistical measures in the analysis of accounting functions.

Instruction: Lectures, discussions and practical exercises give an overview of resource management, fund accounting, obligation management, stock fund management and cost accounting. Statistical information presented includes mean, median, mode and standard deviation.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in managerial accounting (12/91).

AR-1402-0008

PERSINSD AUTOMATIC DATA PROCESSING (ADP) INTERN PROGRAM

Course Number: None.

Location: PERSINSD, Alexandria, VA.

Length: 26 weeks.

Exhibit Dates: 1/90–1/91.

Objectives: To attract, develop, and retain qualified civilian and military personnel designated as management interns to serve as programmers and systems analysts in the Personnel Systems Command, Department of the Army.

Instruction: Through lectures, laboratory periods, video-assisted instruction, practical projects, and directed study, the following areas are covered: introduction to UNIVAC 1108 hardware; principles of data processing; systems analysis and design; COBOL programming; data communication concepts and design; operations research techniques; personnel applications project; and the UNIVAC 1100 executive operating system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in COBOL programming, 3 in data processing principles, and 2 in operating systems (5/76); in the upper-division baccalaureate category, 3 semester hours in business systems analysis (5/76).

AR-1402-0026

FIELD ARTILLERY BALLISTIC MISSILE OFFICER

Course Number: 2E-1190.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 9 weeks (319-328 hours).

Exhibit Dates: 1/90–1/90.

Objectives: To train commissioned officers to supervise tactical deployment, system maintenance, and operation of Pershing and Sergeant missile systems.

Instruction: Lectures and practical exercises in Pershing and Sergeant missile systems operations supervision. Course includes communications and electronics (equipment, procedures, and systems); digital computers; guided missiles, including warheads, launchers, and organizational and preventive maintenance; and tactical subjects.

Credit Recommendation: In the vocational certificate category, 1 semester hour in digital computer familiarization (6/74).

AR-1402-0043

BASIC ASSEMBLER LANGUAGE CODING (ALC)

Course Number: None.

Location: Computer Systems Command, Zweibruecken, Germany; Computer Systems Command, Support Group, Ft. Shafter, HI; Computer Systems Command, Support Group, Ft. McPherson, GA; Computer Systems Command, Support Group, Ft. Lee, VA; Computer Systems Command, Ft. Belvoir, VA.

Length: 3 weeks (120 hours).

Exhibit Dates: 1/90–12/90.

Objectives: To provide students with an understanding of Basic Assembler Language for the IBM 360/370.

Instruction: Subject matter includes standard instruction set, decimal instruction set, branching, logic, Boolean instructions, editing, and translation. I/O macros, debugging, indexing and necessary job control language are included.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in assembler programming (11/82).

AR-1402-0044

DATA PROCESSING: PRINCIPLES

Course Number: None.

Location: Computer Systems Command, Zweibruecken, Germany; Computer Systems Command, Support Group, Ft. Shafter, HI; Computer Systems Command, Support Group, Ft. McPherson, GA; Computer Systems Command, Support Group, Ft. Lee, VA; Computer Systems Command, Ft. Belvoir, VA.

Length: 4-5 weeks (176 hours).**Exhibit Dates:** 1/90-12/90.

Objectives: To provide students with an understanding of how a computer works and its major components.

Instruction: This course consists of four modules: Data Processing Concepts, Fundamentals of Programming, Structured Programming Technologies Overview, and Introduction to Systems 360/370. Students must complete each module. Subject matter included programming concepts, problem analysis, decision tables, coding, number systems, and structured design techniques. Additional problem solution techniques such as program loops, subroutines, counters and switches, and tables are covered. The architecture and organization of the IBM 360/370 are included.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing (11/82).

AR-1402-0045

OPERATING SYSTEMS

Course Number: None.

Location: Computer Systems Command, Zweibruecken, Germany; Computer Systems Command, Support Group, Ft. Shafter, HI; Computer Systems Command, Support Group, Ft. McPherson, GA; Computer Systems Command, Support Group, Ft. Lee, VA; Computer Systems Command, Ft. Belvoir, VA.

Length: 4-5 weeks (176-184 hours).**Exhibit Dates:** 1/90-12/90.

Objectives: To provide students with an overview of operating systems, with emphasis the IBM OS operating system.

Instruction: Program consists of five modules: OS Concepts and Facilities, OS Job Control Language, OS Advanced Job Control Language Concepts and Techniques, OS Utilities and Workshop, and File Organization and Accessing Methods (FOAM). Course covers concepts, facilities, vocabulary, and characteristics of the IBM operating systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing (operating systems) (11/82).

AR-1402-0046

ADVANCED COBOL WORKSHOP

Course Number: None.

Location: Computer Systems Command, Zweibruecken, Germany; Computer Systems Command, Support Group, Ft. Shafter, HI; Computer Systems Command, Support Group, Ft. McPherson, GA; Computer Systems Command, Support Group, Ft. Lee, VA; Computer Systems Command, Ft. Belvoir, VA.

Length: 4 weeks (160 hours).**Exhibit Dates:** 1/90-12/90.

Objectives: To provide advanced ANS COBOL skills so that students may code complex programs.

Instruction: The lecture/workshop programs involves coding at least three programs in which skills in the following areas are developed: use of source language storage system (ISO), use of the SORT verb, table handling features, subprogramming techniques, and ISAM applications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing (COBOL) (11/82).

AR-1402-0047

INTRODUCTION TO ANS COBOL

Course Number: None.

Location: Computer Systems Command, Zweibruecken, Germany; Computer Systems Command, Support Group, Ft. Shafter, HI; Computer Systems Command, Support Group, Ft. McPherson, GA; Computer Systems Command, Support Group, Ft. Lee, VA; Computer Systems Command, Ft. Belvoir, VA.

Length: 3 weeks (120 hours).**Exhibit Dates:** 1/90-12/90.

Objectives: To provide programmers with an entry level knowledge of ANS COBOL.

Instruction: The ANS COBOL instructions are presented in a structured programming environment with an emphasis on the syntax of the language. Students load at least three programs requiring a skill in data manipulation and table processing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing (COBOL) (11/82).

AR-1402-0048

BUSINESS SYSTEMS ANALYSIS

Course Number: None.

Location: Computer Systems Command, Zweibruecken, Germany; Computer Systems Command, Support Group, Ft. Shafter, HI; Computer Systems Command, Support Group, Ft. McPherson, GA; Computer Systems Command, Support Group, Ft. Lee, VA; Computer Systems Command, Ft. Belvoir, VA.

Length: 2 weeks (80 hours).**Exhibit Dates:** 1/90-9/91.

Objectives: To provide students with an understanding of systems analysis, design, and implementation for organizational problem solving.

Instruction: The course comprises two modules: Systems Analysis Training for Programmers (also called Systems Analysis for Computer Programmers) and Design/Documentation Workshop. Course covers principles and techniques required in the analysis and design of information processing systems. Topics include defining objectives, interviewing and gathering information, documentation, analyzing available information, selecting and designing a solution, types of controls, quantitative techniques and structured design techniques including the top down approach, HIPO, and Program Design Language. Guidelines for distinguishing between good design and bad design are included.

Credit Recommendation: In the lower-division baccalaureate/associate degree cate-

gory, 3 semester hours in data processing (systems analysis) (11/82).

AR-1402-0051

SECURITY IN AUTOMATED SYSTEMS (SAS)

(Security in Automatic Data Processing Systems (ADPS))

Course Number: ALM-51-0297; ALMC-DX.

Location: Army Logistics Management College, Ft. Lee, VA; Army Logistics Management College, Onsite at various locations.

Length: 1-2 weeks (60-78 hours).**Exhibit Dates:** 1/90-Present.

Objectives: To provide students with an awareness of the necessity for and means of achieving a satisfactory level of security in automatic data processing facilities.

Instruction: Lectures and workshop exercises cover the design of security systems for automatic data processing facilities.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in ADP systems security (4/89).

AR-1402-0057

INTEGRATED FACILITIES SYSTEM

Course Number: ALM-59U310; ALM-59U260; ALM-59U210; ALMC-5D.

Location: Army Logistics Management Center, Ft. Lee, VA.

Length: 2-3 weeks (74-95 hours).**Exhibit Dates:** 1/90-Present.

Objectives: To train personnel to convert and update computer files in real property maintenance, asset accounting, and facilities engineering management systems.

Instruction: Programmed instruction texts and practical exercises in real property maintenance, asset accounting, and facilities engineering management systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in integrated facilities system application (3/86).

AR-1402-0059

DECENTRALIZED AUTOMATED SERVICE SUPPORT SYSTEM (DAS3)

Course Number: 551-ASIU8; 8B-F38.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 4 weeks (141 hours).**Exhibit Dates:** 1/90-10/90.

Objectives: To provide selected warrant officers, noncommissioned officers, and enlisted personnel with comprehensive knowledge and skills required to operate an automated data processing system used to support a logistical management information system and a standard supply system.

Instruction: Types of instruction include equipment demonstrations, practical exercises, lectures, and performance examinations. Topics include introduction to the central processing unit and related peripheral devices, the use of application software programs, and the operation of magnetic type subsystems, line printers, and disk drives.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to computer operations (4/81).

AR-1402-0065

DISK OPERATING SYSTEMS (DOS) CONCEPTS AND
JOB CONTROL LANGUAGE (JCL)

Course Number: ADP-30.

Location: Combined Arms Training Center,
Zweibruecken, Germany.

Length: 2 weeks (74 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train personnel to use disk operating system (DOS) concepts and Job Control Language (JCL).

Instruction: Lectures and hands-on computer application in the areas of DOS supervision, program status words, input/output tables, communication regions, supervisor transient areas, DOS problem program areas, and the non-resident DOS supervisor.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in Job Control Language (JCL) (10/82).

Related Occupations: 741A; 74C; 74D; 74F.

AR-1402-0066

DISK OPERATING SYSTEM (DOS) EXECUTIVE
SOFTWARE

Course Number: ADP-31.

Location: Combined Arms Training Center,
Zweibruecken, Germany.

Length: 2 weeks (80 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide students with the necessary knowledge and skills to utilize software programs that support a disk operating system.

Instruction: Self-paced independent reading course dealing with the application of special military software packages; includes required practical exercises (without hands-on time).

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (10/82).

Related Occupations: 741; 74E.

AR-1402-0067

STRUCTURED CODING WORKSHOP
(Structured Coding Using COBOL)

Course Number: None.

Location: Computer Systems Command,
Zweibruecken, Germany; Computer Systems
Command, Support Group, Ft. Shafter, HI;
Computer Systems Command, Support Group,
Ft. McPherson, GA; Computer Systems Com-
mand, Support Group, Ft. Lee, VA; Computer
Systems Command, Ft. Belvoir, VA.

Length: 1 week (40-45 hours).

Exhibit Dates: 1/90–9/91.

Objectives: To provide coverage of structured coding techniques using COBOL.

Instruction: The program consists of one module: Structured Coding Workshop which covers IPO charts, top-down design tools, Nursi-Schneiderman/Chapin charts (NSCC) and structured flow charts.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hours in data processing (structured design) (11/82).

AR-1402-0068

DAS3 EXECUTIVE LANGUAGE AND EDITOR

Course Number: None.

Location: Computer Systems Command,
Zweibruecken, Germany; Computer Systems
Command, Support Group, Ft. Shafter, HI;
Computer Systems Command, Support Group,
Ft. McPherson, GA; Computer Systems Com-
mand, Support Group, Ft. Lee, VA; Computer
Systems Command, Ft. Belvoir, VA.

Length: 1-2 weeks (59 hours).

Exhibit Dates: 1/90–9/91.

Objectives: To provide programmers with the ability to create, modify, (edit) and execute tasks on the Honeywell Level 6/DAS3 computer system.

Instruction: The course consists of two modules: Introduction to DAS3 and DAS3 Executive Language and Editor Function. Detailed instruction and workshop in systems configuration and user interaction with the Level 6 MOD 400 operating system via the command processor and utilities. The course covers commands, data file organization, editor directives, linker, command files and sort-merge.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in data processing (executive language JCL) (11/82).

AR-1402-0069

DAS3 COBOL SPECIFICS

Course Number: None.

Location: Computer Systems Command,
Zweibruecken, Germany; Computer Systems
Command, Support Group, Ft. Shafter, HI;
Computer Systems Command, Support Group,
Ft. McPherson, GA; Computer Systems Com-
mand, Support Group, Ft. Lee, VA; Computer
Systems Command, Ft. Belvoir, VA.

Length: 1-2 weeks (56 hours).

Exhibit Dates: 1/90–12/90.

Objectives: To provide experienced COBOL programmers with Honeywell Level 6 COBOL differences.

Instruction: This course provides a review of MOD 400 COBOL needed to create and run application programs on the Level 6 computer. Emphasis is placed on communication and file accessing concepts, data representation, differences between Version 69 and 74 COBOL.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hours in data processing (COBOL) (11/82).

AR-1402-0070

INTRODUCTION TO DATA BASE MANAGEMENT
SYSTEMS

Course Number: None.

Location: Computer Systems Command,
Zweibruecken, Germany; Computer Systems
Command, Support Group, Ft. Shafter, HI;
Computer Systems Command, Support Group,
Ft. McPherson, GA; Computer Systems Com-
mand, Support Group, Ft. Lee, VA; Computer
Systems Command, Ft. Belvoir, VA.

Length: 1-2 weeks (64 hours).

Exhibit Dates: 1/90–12/90.

Objectives: To provide personnel with an understanding of data base management systems and how they operate.

Instruction: The course comprises two modules: Introduction to Data Base Concepts and Management Systems and Overview of Data Base Management Systems. Both modules must be completed. Course includes the basic

components of a data base management system, various data models such as true structures, and converting logical designs into physical representations. The importance of privacy/security, tuning and other operational factors are considered. An overview of five data base management systems is presented.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in data processing (11/82).

AR-1402-0071

TACTICAL FIRE (TACFIRE) SUPPORT ELEMENT
LIAISON OFFICER

Course Number: 2G-F52; 2G-ASI4D/250-
ASIX3.

Location: Field Artillery School, Ft. Sill,
OK.

Length: 5-7 weeks (200-255 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide selected personnel with the knowledge and skills required to tactically employ, operate, and maintain the Variable Format Message Entry Device.

Instruction: Self-paced instruction covering the use of the tactical fire communications system, the Variable Format Message Entry Device (VFMED), and fire support/liaison procedures using the VFMED.

Credit Recommendation: In the vocational certificate category, 1 semester hour in computer operations (10/83).

AR-1402-0072

TACTICAL FIRE (TACFIRE) TACTICAL
OPERATIONS CENTER

Course Number: 2G-ASI4D/250-F14; 250-
F14.

Location: Field Artillery School, Ft. Sill,
OK.

Length: 4-5 weeks (160 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide selected personnel with the knowledge and skills necessary to employ, operate, and maintain TACFIRE remote devices.

Instruction: Instruction in TACFIRE capabilities, characteristics, organization, applications, and operating procedures.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (11/85).

AR-1402-0074

TACTICAL FIRE (TACFIRE) DIRECTION SYSTEM
FIRE SUPPORT

(TACFIRE Fire Direction System Fire Support with Fire Support Element Module)

Course Number: 2G-F30; 250-F6.

Location: Field Artillery School, Ft. Sill,
OK.

Length: 9-11 weeks (383 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide selected fire direction operations and intelligence personnel with the knowledge and skills required to tactically employ, operate, and maintain a tactical fire direction system at the field artillery battalion and division level.

Instruction: Instruction at the systems level in the operation and organizational maintenance of a military tactical fire direction system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer operations, 1 in computer maintenance (10/83).

AR-1402-0075

FIREFINDER RADAR REPAIRER

Course Number: 104-ASIX5

Location: Field Artillery School, Ft. Sill, OK.

Length: 27-28 weeks (1001-1037 hours).

Exhibit Dates: 1/90-Present

Objectives: To provide the skills and knowledge required to inspect, test, and perform direct support maintenance at the block diagram level of field artillery firefinder sets.

Instruction: Lecture and laboratory instruction in basic electronics, digital fundamentals and logic, operation of radar sets, direct support maintenance and calibration procedures required to provide mission support maintenance on field artillery firefinder radar equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in radar maintenance and operation, 3 in digital theory (11/85).

AR-1402-0078

1. AUTOMATIC MESSAGE SWITCHING CENTER OPERATIONS
2. AUTOMATIC MESSAGE SWITCHING CENTRAL AN/TYC-39(V)
(Automatic Message Switching Central (AN/TYC-39))

Course Number: Version 1: 260-ASIZ2.
Version 2: 260-ASIZ2.

Location: Signal School, Ft. Gordon, GA.

Length: Version 1: 7 weeks (266 hours).
Version 2: 7-8 weeks (263 hours).

Exhibit Dates: Version 1: 1/95-Present.
Version 2: 1/90-12/94.

Learning Outcomes: Version 1: To provide the student with the ability to perform duties of a mobile automatic message switching central operator/supervisor. This version is pending evaluation. Version 2: To provide the student with the ability to perform duties of a mobile automatic message switching central operator/supervisor.

Instruction: Version 1: This version is pending evaluation. Nontechnical instruction in the operation of AN/TYC-39 system to include system start-up and management, traffic service and file control. Version 2: Nontechnical instruction in the operation of AN/TYC-39 system to include system start-up and management, traffic service and file control.

Credit Recommendation: Version 1: Pending evaluation. Version 2: Credit is not recommended because of the military-specific nature of the course (5/90).

Related Occupations: 72E.

AR-1402-0083

TACTICAL FIRE (TACFIRE) BATTALION FIRE DIRECTION OFFICER

Course Number: 2G-F57; 2G-S14F.

Location: Field Artillery School, Ft. Sill, OK.

Length: 7 weeks (252-266 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide training to selected personnel to perform as tactical fire (TACFIRE) battalion fire direction officers.

Instruction: Lectures and demonstrations on the TACFIRE system, equipment, organization, operation, operating procedures, and maintenance management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in computer operations, 1 in maintenance management (7/91).

AR-1402-0084

TACTICAL FIRE (TACFIRE) DIVARTY, FIELD ARTILLERY BRIGADE, AND CORPS ARTILLERY FIRE CONTROL ELEMENT

Course Number: 2E-ASI4F/250-ASIY1; 250-F33.

Location: Field Artillery School, 7th Army, Grafenwoehr, Germany; Field Artillery School, Ft. Sill, OK.

Length: 6-7 weeks (237-280 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide training to selected personnel to perform as tactical fire (TACFIRE) fire direction control officers and noncommissioned officers.

Instruction: Lectures and demonstrations on employing, operating, and maintaining the tactical fire (TACFIRE) direction system, applications of data processing, and fire control elements.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in computer operations, 1 in maintenance management (1/92).

Related Occupations: 13C; 13E.

AR-1402-0086

AMMUNITION STOCK CONTROL AND ACCOUNTING SPECIALIST BASIC NONCOMMISSIONED OFFICER (NCO)

(Ammunition Stock Control and Accounting Specialist Basic Technical)

Course Number: 551-55R30.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 7-10 weeks (261-363 hours).

Exhibit Dates: 1/90-6/90.

Objectives: To provide personnel with the skills and knowledge required to perform ammunition stock control and accounting duties, and operation of computer equipment associated with the Standard Army Ammunition System.

Instruction: Personnel will be trained to operate the computer equipment associated with the Standard Army Ammunition System. Includes use of software and routine maintenance of line printer, teleprinter and magnetic tape units.

Credit Recommendation: In the vocational certificate category, 2 semester hours in introduction to computer operations (10/89); in the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (10/89).

Related Occupations: 55R.

AR-1402-0087

CHAPLAIN ASSISTANT
(Chaplain's Assistant)
(Chapel Activities Specialist)

Course Number: 561-71M10.

Location: Chaplain Center and School, Ft. Monmouth, NJ.

Length: 8-9 weeks (306-310 hours).

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to develop interpersonal interaction skills, provide comfort to distressed people, prepare a chapel for various religious services, assist in tactical deployment, operate a motor vehicle safely, and perform various basic clerical skills, including typing and filing.

Instruction: Topics include interpersonal interaction skills, chapel preparations, identification of ecclesiastical vestments and items, religious training and worship scheduling, religious practices, motor vehicle operation, tactical deployment equipment, casualty assistance, administrative office practice, typing, and filing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in interpersonal communications, 1 in data entry/keyboarding, and 1 in clerical duties (filing and typing) (2/93).

Related Occupations: 71M.

AR-1402-0088

PASTORAL COORDINATOR

Course Number: 5G-ASI7F/561-F5; 5G-ASI7F.

Location: Chaplain Center and School, Ft. Monmouth, NJ.

Length: 2 weeks (80 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to prepare a computerized comprehensive master plan of religious activities taking into account budgeting, manpower, and resource considerations, to monitor program execution, and to account for fund expenditures.

Instruction: Topics include microcomputer applications to planning, programming, budgeting, contracts and property, manpower considerations, and spiritual dimensions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in microcomputer applications (6/90); in the upper-division baccalaureate category, 1 semester hour in budget management (6/90).

AR-1402-0089

TECHNICAL CONTROL AND ANALYSIS CENTER OPERATOR, AN/TSQ-130 (V)

Course Number: 232-F5.

Location: Intelligence School, Ft. Devens, MA.

Length: 3-5 weeks (136-172 hours).

Exhibit Dates: 1/90-3/94.

Learning Outcomes: Upon completion of the course, the student will be able to operate a TCAC to draft, format and process messages, to manipulate the data base, to monitor message flow as well as prepare the system for relocation and reinstallation.

Instruction: Instruction includes hands-on training in the operation and reinstallation of a technical control and analysis center, including the use of function keys and management of the data base.

Credit Recommendation: In the lower-division baccalaureate/associate degree cate-

gory, 1 semester hour in computer operations (6/91).

AR-1402-0094

CONSOLE CONTROL OPERATIONS

Course Number: WHO2.

Location: White House Communications Agency, Washington, DC.

Length: Phase 1, classroom, 10 weeks (96 hours); Phase 2, practicum, 14 weeks (168 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to act as a communications assistant for information and provide communication to the members of the Executive Branch of the government; establish and operate voice transmissions which insure security, both on telephone lines and radio nets; integrate telephone/radio communications from ground, mobile, and air units; establish telephone communications as requested, including mobile phone calls, matrix calls, conference calls, and special-handling calls between top government officials; provide emergency communications systems for the Executive Branch as required.

Instruction: Topics include the organization of the Executive Branch; computer training; communications security and installation of communications networks including telephone, radio, and satellite; installation and use of sophisticated telecommunications systems, both commercial and military; maintenance of records and files of daily telephone communications; operation of switchboard consoles. Instructional methods include lectures, seminars, and practical exercises. Course includes 14 weeks of supervised on-the-job training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks (9/87).

AR-1402-0095

STANDARD POST SYSTEM-ENHANCED/ DECENTRALIZED AUTOMATED SERVICE SUPPORT SYSTEM (DASPE-E/DAS3)

Course Number: 531-ASIM6.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 7 weeks (252 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate and perform operator maintenance on computer software and hardware.

Instruction: Lectures, practical exercises and demonstrations on the use of the Army Standard Post System-Enhanced/Decentralized Automated Service Support System. Includes identification of major system components, power-up/power-down procedures; entering of data and document production; processing data and production of status reports; generating tables and report printouts; and downloading data to microcomputers.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer operation (6/91).

AR-1402-0096

DIRECTOR OF INFORMATION MANAGEMENT (DOIM)/ECHELONS ABOVE CORPS (EAC) OPERATIONS OFFICER

Course Number: 7E-F35/531-F10.

Location: Signal School, Ft. Gordon, GA.

Length: 5 weeks (180 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to disseminate Army information using telecommunications, automation, print media, and visual presentations.

Instruction: Instruction includes classroom, laboratory exercises, tours of various media production sites, terrestrial transmission and satellite communications systems, defense data systems, records management, and print/visual methods of presentation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in methods of information dissemination (6/88).

AR-1402-0097

ADVANCED THEORY AND EXPERT SYSTEM BUILDING (Advanced Course in Artificial Intelligence Theory and Expert Systems Building)

Course Number: 7E-F37/150-F11.

Location: Signal School, Ft. Gordon, GA.

Length: 3-4 weeks (116-150 hours).

Exhibit Dates: 1/90-12/92.

Learning Outcomes: Upon completion of the course the student will possess a working knowledge of the theory of artificial intelligence as it relates to expert systems building. The student will also possess a working knowledge of artificial intelligence software.

Instruction: Lectures and practical exercises in predicate logic, PROLOG, LISP, SEARCH, and knowledge representation. Includes case studies and hands-on experience with graphics-oriented artificial intelligence software.

Credit Recommendation: In the graduate degree category, 2 semester hours in artificial intelligence. A student completing both this and 7E-F36/150-F10 should receive a total of 3 semester hours in artificial intelligence (6/90).

AR-1402-0098

EXPERT SYSTEMS ARCHITECTURE AND OBJECT- ORIENTED PROGRAMMING

Course Number: 7E-F38/150-F12.

Location: Signal School, Ft. Gordon, GA.

Length: 3 weeks (116 hours).

Exhibit Dates: 1/90-12/92.

Learning Outcomes: Upon completion of the course the student will perform advanced programming techniques for expert systems architecture and object-oriented programming environments.

Instruction: Lectures and exercises in advanced LISP programming, debugging methods, and user/designer interfaces. The course is a logical extension of 7E-F37/150-F11.

Credit Recommendation: In the graduate degree category, 2 semester hours in advanced problem solving in artificial intelligence (6/90).

AR-1402-0099

KNOWLEDGE ENGINEERING AND BASIC EXPERT SYSTEMS BUILDING

Course Number: Version 1: 7E-F36/150-F10. Version 2: 7E-F36/150-F10.

Location: Signal School, Ft. Gordon, GA.

Length: Version 1: 2 weeks (78 hours). Version 2: 2 weeks (73-78 hours).

Exhibit Dates: Version 1: 10/92–Present. Version 2: 1/90-9/92.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to use a DOS-compatible computer and expert system software to design, implement, and test a rules-based expert program; determine when expert system software may be used to solve a problem; apply expert system software to practice problems; and make oral presentations outlining an expert system design plan. Version 2: Upon completion of the course, the student will demonstrate a working knowledge of problem assessment, design cost analysis, testing techniques and methodologies for the project management and building of rule-based expert systems.

Instruction: Version 1: Lectures and practical exercises involving the operation and application of a DOS-based expert system program. Version 2: Lectures and practical exercises in problem solving, construction of knowledge systems, evaluation of knowledge systems, and the construction of expert systems prototypes.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 3 semester hours in introduction to application of expert system software (2/94). Version 2: In the graduate degree category, 1 semester hour in artificial intelligence (6/88).

AR-1402-0101

TACTICAL ARMY COMBAT SERVICE SUPPORT COMPUTER SYSTEM/STANDARD ARMY MAINTENANCE SYSTEM (TACCS/SAMS)

Course Number: 551-ASIB5.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 3 weeks (108 hours).

Exhibit Dates: 1/90–Present.

Objectives: Upon completion of the course, the student will understand the operation of a microcomputer-based system and an applications-oriented system designed for this hardware and will become proficient in keyboarding skills to enter data and commands to the system.

Instruction: Classroom lectures, demonstration, and practical exercises needed to teach the operation of microcomputer operations including diskette and tape cassette drives and printer operation; applications system operation includes all functions associated with data input, processing, reports, and file backups.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in microcomputer applications (6/96).

AR-1402-0102

DECENTRALIZED AUTOMATED SERVICE SUPPORT SYSTEM (DAS3) AND THE DIRECT SUPPORT UNIT STANDARD SUPPLY SYSTEM (DS4) OPERATOR

Course Number: 8B-F39/551-ASIM6.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 6 weeks (212 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will understand the operation of a minicomputer environment including a full complement of peripheral devices, and will understand the functions of an operating system used to control the computer hardware.

Instruction: Classroom lectures, demonstrations, and practical exercises are used to teach the operation of a minicomputer and associated tape drives, printer, communications gear, and disk drives. The function and operation of the operating system exposes the student to console control of applications jobs, utilities, backup processes and problem determination.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in computer operations (10/88).

AR-1402-0103

MULTIPLE VIRTUAL STORAGE (MVS) 5 CONCEPTS AND OPERATIONS

Course Number: MVS 5.

Location: Combined Arms Training Center, Pirmasens, W. Germany.

Length: 2 weeks (80 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to describe the function of IBM 4341 OS/VS2 Multiple Virtual Storage (MVS) job control language (JCL); list the nine JCL statements and code simple JCL statements; identify standard IBM utility programs and be able to code JCL to execute simple utility functions; explain the concept of virtual storage and the functional areas of MVS; describe the path of a job through the system; explain how processing interaction occurs; initialize an OS/VSL MVS system and use system commands; use JES 2 commands; explain relationships among VTOS, labels, and control blocks.

Instruction: Methods of instruction include lectures, hands-on experience, examinations, and demonstrations.

Credit Recommendation: In the vocational certificate category, 1 semester hour in computer operations (10/88).

AR-1402-0105

MULTIPLE VIRTUAL STORAGE (MVS) 3 ADVANCED CONCEPTS

Course Number: MVS 3.

Location: Combined Arms Training Center, Pirmasens, W. Germany.

Length: 2 weeks (80 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to do the following on an IBM 4341 OS/VS2 Multiple Virtual Storage (MVS) system: Code simple skeletal assembler programs; use macros to invoke the functions of the program, task, and data management systems; locate and map control blocks and data areas in virtual storage dumps.

Instruction: Methods of instruction include classroom lecture, examination, practical exercise (including hands-on) and demonstration.

Credit Recommendation: In the vocational certificate category, 1 semester hour in computer concepts (10/88).

AR-1402-0107

COBOL PROGRAMMING

Course Number: ADP 27

Location: Combined Arms Training Center, Munich, W. Germany

Length: 2 weeks (73 hours)

Exhibit Dates: 1/90–Present

Learning Outcomes: Upon completion of the course, the student will be able to read, write, and debug simple COBOL programs including program structures (divisions), input/output, arithmetic and logic operations.

Instruction: Methods of instruction include lecture, demonstration, program writing, program entry on a computer, execution and analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in introduction to COBOL (10/88).

AR-1402-0108

STRUCTURED SYSTEMS ANALYSIS AND DESIGN

Course Number: ADP-50.

Location: Combined Arms Training Center, Munich, W. Germany.

Length: 2 weeks (69 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to analyze data flow and operation of existing systems, then design new, structured systems; prepare specialized forms for analyzing data (for example, grid charts, decision tables, data flow diagrams, data dictionaries, and structure charts).

Instruction: Methods of instruction include lecture, practical exercises (simulations), and study of text material.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in introduction to structured systems (10/88).

AR-1402-0109

TACTICAL ARMY COMBAT SERVICE SUPPORT COMPUTER SYSTEM (TACCS) PROGRAMMING

Course Number: ADP-30.

Location: Combined Arms Training Center, Munich, W. Germany.

Length: 2 weeks (73 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to describe and explain: the computer structure and capabilities of the military computer system (TACCS); unpack, set up, and check out the functioning of the TACCS unit; use floppy diskettes to install software; create and modify text files; utilize password protection to safeguard files; create an archival volume; access files; describe difference between compilers and interpreters, program development and the sequence of compile-link-execute; compile and execute programs in COBOL, BASIC, and PASCAL; use a systems debugger to locate and modify memory; explain basic communication concepts and use a terminal emulator for initiation of asynchronous terminal emulator communications; build and transmit a file; perform bootstrap ROM diagnostic functions and correct malfunctions noted by monitor error codes; define system errors and status codes; interpret error messages; perform recovery procedures; perform reboot procedures.

Instruction: Through lecture/conference classes and practical exercises, the student is

taught and then performs hands-on exercises in setting up a computer system followed by activation and fault isolation, instruction in and application of software, understanding and use of the programming languages of COBOL, BASIC, and PASCAL; instruction in procedures for administration functions and security of files; procedures for performing system manager functions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in fundamentals of computer applications (10/88).

AR-1402-0111

TARGET ACQUISITION RADAR TECHNICIAN WARRANT OFFICER ADVANCED

Course Number: 2-6-C32-131A.

Location: Field Artillery School, Ft. Sill, OK.

Length: 3-4 weeks.

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to communicate effectively, both orally and in writing, edit military correspondence, provide leadership to technical staff, coordinate with agencies in the military community, use word processing and Lotus 1-2-3 software, and apply supply and management concepts.

Instruction: Lectures on the latest technological changes and advanced concepts in occupational fields with emphasis on effective communication skills, leadership ability, supply and management concepts and hands-on experience in word processing and spreadsheet software use.

Credit Recommendation: In the vocational certificate category, 1 semester hour in introduction to application software (Lotus 1-2-3) (6/89); in the lower-division baccalaureate/associate degree category, 3 semester hours in communications (oral and written) (6/89).

AR-1402-0112

OH-58D FIELD ARTILLERY AERIAL FIRE SUPPORT OBSERVER

Course Number: 250-F32.

Location: Field Artillery School, Ft. Sill, OK.

Length: 5 weeks (218 hours).

Exhibit Dates: 1/90–12/92.

Learning Outcomes: Upon completion of the course, the student will be able to perform duties as an aerial observer, providing fire support information for artillery organizations at the brigade level, able to operate specialized, new technology systems including a computerized laser-guided system, thermal imagery optics, digital message device and laser rangefinder; perform procedures for requesting and directing accurate artillery fire; able to provide advice and guidance to commanders for the coordinated use of all fire support assets.

Instruction: Conferences, simulations and extensive practical exercises, followed by field training exercises which emulate live fire digital missions by day and night; flight training and aerial missions to develop skill proficiency; examinations to test competence in topics such as fire support planning, use of communications equipment (voice and digital messages), use of special munitions and their guidance systems, offensive and defensive operations and procedures for adjusting artillery fire on targets.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in communications system operations (6/89).

AR-1402-0113

BRANCH AUTOMATION OFFICER

Course Number: *Version 1:* 7E-SI4H/7E-F40/260-F10. *Version 2:* 7E-SI4H.

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 8 weeks (320 hours). *Version 2:* 10-11 weeks (382 hours).

Exhibit Dates: *Version 1:* 1/93–Present. *Version 2:* 1/90–12/92.

Learning Outcomes: *Version 1:* Upon completion of the course the student will be able to perform the duties of a data processing manager; specify, acquire, and develop data processing systems; use software application packages; demonstrate a working knowledge of operating systems, hardware architecture, local area networks, structured programming, and data base management techniques; and manage implementation and maintenance of data processing systems. *Version 2:* Upon completion of the course, the student will be able to perform the duties of a data processing manager; able to specify, acquire, and develop data processing systems; use software application packages; demonstrate a working knowledge of operating systems, hardware architecture, local area networks, structured programming, and data base management techniques; able to manage implementation and maintenance of data processing systems.

Instruction: *Version 1:* Lectures, practical exercises, and exams on topics including computer hardware architecture, operating systems, software application packages, systems analysis and design, local area networks, project management, data base management, structured programming and system testing, implementation and management. Both microcomputers and mainframes are covered. *Version 2:* Lectures, practical exercises, and exams on topics including computer hardware architecture, operating systems, software application packages, systems analysis and design, local area networks, project management, data base management, structured programming and system testing, implementation and management. Both microcomputers and mainframes are covered.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 4 semester hours in computer literacy, 3 in software engineering, and 2 in data communications (2/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to systems analysis, 3 in computer literacy, 1 in data base management, 1 in operating systems, 1 in computer programming concepts, and 3 in data communications (7/89); in the upper-division baccalaureate category, 3 in computer systems management (7/89).

AR-1402-0114

SOFTWARE ANALYST

(Programmer/Analyst)

Course Number: *Version 1:* 532-74F10 (ST); 532-74F10. *Version 2:* 532-74F10 (ST); 532-74F10.

Location: Institute for Administration, Ft. Benjamin Harrison, IN; Signal School, Ft. Gordon, GA.

Length: *Version 1:* 10 weeks (360 hours). *Version 2:* 9-11 weeks (322-396 hours).

Exhibit Dates: *Version 1:* 8/92–Present. *Version 2:* 1/90–7/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to use commonly available personal computer software such as DOS, Lotus, and dBase III. The student will be able to create structured programs in Unix and ADA. *Version 2:* Upon completion of the course the student will be able to prepare flow charts for a project; and analyze, write, modify, and debug COBOL programs.

Instruction: *Version 1:* The course uses classroom lectures, exercises, and demonstrations. Topics include computer concepts, MS-DOS, Lotus, dBase III, ADA, JCL, and data communications. *Version 2:* Classroom lectures, exercises, and demonstrations using appropriate computers.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 4 semester hours in computer literacy and 2 in JCL programming (2/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in automated data processing and 5 in COBOL programming (5/90).

Related Occupations: 74F.

AR-1402-0115

SYSTEMS AUTOMATION

Course Number: *Version 1:* 7E-53A. *Version 2:* 7E-53A.

Location: Institute for Administration, Ft. Benjamin Harrison, IN; Signal School, Ft. Gordon, GA.

Length: *Version 1:* 19-20 weeks (716 hours). *Version 2:* 19-20 weeks (716 hours).

Exhibit Dates: *Version 1:* 10/92–Present. *Version 2:* 1/90–9/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform the duties of an information systems engineer; demonstrate a working knowledge of MS-DOS, UNIX, and a Burroughs operating system, a specific commercial microcomputer spreadsheet, word processor, data base, and graphics program, security management concepts, acquisition management concepts, information center management concepts, hardware architecture, and data communications concepts; install and troubleshoot an Ethernet local area network; demonstrate a working knowledge of two international data communication standards, basic concepts of digital electronics, and concepts of software engineering; design a data base system and program in ADA and DB III; and design, develop, and build expert systems. *Version 2:* Upon completion of the course, the student will be able to perform the duties of an information systems engineer; demonstrate a working knowledge of MS-DOS, UNIX, and a Burroughs operating system, a specific commercial microcomputer spreadsheet, word processor, data base, and graphics program, security management concepts, acquisition management concepts, information center management concepts, hardware architecture and data communications concepts; install and troubleshoot an Ethernet local area network; demonstrate a working knowledge of two international data communication standards, basic concepts of digital electronics, and concepts of software engineering; design a data

base system and program in ADA and DB III; and design, develop, and build expert systems.

Instruction: *Version 1:* Lectures, practical exercises, computer-aided instruction, and tests cover the course topics. This is a rigorous and intensive course covering the topics in great depth. Only personnel with baccalaureate degrees that support advanced study in computer science and information systems engineering are admitted to the course. *Version 2:* Lectures, practical exercises, computer-aided instruction, and tests over the course topics. This is a rigorous and intensive course covering the topics in great depth. Only personnel with baccalaureate degrees that support advanced study in computer science and information systems engineering are admitted to the course.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 4 semester hours in computer literacy and 3 in data communications (3/94); in the upper-division baccalaureate category, 3 semester hours in software engineering, 3 in information systems management, 6 in ADA programming, 3 in advanced data communication, and 3 in artificial intelligence and expert systems (3/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in operating systems, 3 in data communications, 1 in DB III programming, 3 in application software, and 1 in digital principles (7/89); in the upper-division baccalaureate category, 3 semester hours in advanced data communications, 3 in software system design, 3 in Ada programming, and 3 in information systems management (7/89); in the graduate degree category, 3 semester hours in expert systems and 2 in system data base (7/89).

Related Occupations: 53A.

AR-1402-0116

INFORMATION SYSTEMS OPERATOR BASIC

NONCOMMISSIONED OFFICER (NCO)

(Computer/Machine Operator Basic Non-commissioned Officer (NCO))

Course Number: *Version 1:* 531-74D30. *Version 2:* 531-74D30.

Location: Institute for Administration, Ft. Benjamin Harrison, IN; Signal School, Ft. Gordon, GA.

Length: *Version 1:* 11 weeks (401 hours). *Version 2:* 3-4 weeks (120 hours).

Exhibit Dates: *Version 1:* 10/91–Present. *Version 2:* 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform the tasks of an information system operator in the air-land battle doctrine to counter the threat and provide leadership needed to perform duties in the battle; and perform system administration using the UNIX operating system. *Version 2:* Upon completion of the course the student will write operating system control statements; correct a production halt or abnormal termination; and devise a continuity of operation plan for a military data handling computer.

Instruction: *Version 1:* Classroom exercises in automation systems development and deployment, case studies encompassing data communications hardware/software configuration and analysis using Bourne shell programming features and UNIX operating system commands and concepts. *Version 2:* Classroom and practical exercises using the applicable computer.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in UNIX operating system. See AR-1406-0090 for common core credit (2/94); in the upper-division baccalaureate category, 3 semester hours in system design and analysis (2/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in computer systems operation. See AR-1406-0090 for common core credit (7/89).

Related Occupations: 74D

AR-1402-0117

INFORMATION SYSTEMS OPERATOR
(Computer/Machine Operator)
(Computer Systems Operator)

Course Number: 531-74D10/531-74D10 (ST); 531-74D10.

Location: Institute for Administration, Ft. Benjamin Harrison, IN; Signal School, Ft. Gordon, GA.

Length: 6-13 weeks (239-446 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify the components of a data processing system; supply input and obtain output from the system; use MS-DOS and UNIX operating systems; establish communications between two computers; and perform unit-level maintenance on computer equipment.

Instruction: Classroom and practical exercises in basic data processing, computer operation, MS-DOS and UNIX operating systems, Lotus spreadsheet, dBase III, data communications, and unit-level system maintenance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in computer operation (2/94); in the lower-division baccalaureate/associate degree category, 1 semester hour in introduction to data processing, 4 in data processing operating systems, and 2 in data processing applications software (2/94).

Related Occupations: 74D.

AR-1402-0119

DATA PROCESSING ADVANCED NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 5-74-C42. *Version 2:* 5-741-C42.

Location: Institute for Administration, Ft. Benjamin Harrison, IN; Signal School, Ft. Gordon, GA.

Length: *Version 1:* 15-16 weeks (567 hours). *Version 2:* 14-15 weeks (518 hours).

Exhibit Dates: *Version 1:* 10/91–Present. *Version 2:* 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to use MS-DOS-based word processors, spreadsheets, and data bases; configure data communications networks; manage the installation, maintenance, and security of information systems; and manage the development of an expert system, including problem analysis, system development, prototyping, and testing. *Version 2:* Upon completion of the course the student will be able to use LOTUS 1-2-3, Multimate, and DB III; program in DB III and Ada; configure and design data communications networks; manage the acquisition, installation, maintenance, and security of information systems; and

demonstrate a working knowledge of and design expert systems.

Instruction: *Version 1:* Lectures and practical exercises cover the topics. *Version 2:* Lectures and practical exercises cover the topics.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to data processing, 1 in applications software, 2 in data communications, and 3 in information systems management. See AR-1404-0035 for common core credit (2/94); in the upper-division baccalaureate category, 3 semester hours in expert systems (2/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in application software, 1 in DB III programming, 2 in Ada programming, 2 in data communications. See AR-1404-0035 for common core credit (7/89); in the upper-division baccalaureate category, 3 in information systems management (7/89); in the graduate degree category, 2 semester hours in expert systems (7/89).

AR-1402-0120

PROGRAMMER/ANALYST BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 532-74F30.

Location: Institute for Administration, Ft. Benjamin Harrison, IN; Signal School, Ft. Gordon, GA.

Length: 10 weeks (368 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to use techniques of systems analysis to design, implement or modify computer systems; manage such systems, including security capacity, quality assurance, and network considerations; create or manage system data base by using various techniques and writing COBOL programs; update and manipulate indexed sequential files, and create screen forms and associated interactive programs.

Instruction: Classroom instruction in the various topic areas and practical application of theory using case studies as well as introductions to the Honeywell system and the Tactical Army Computer System.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (7/89); in the upper-division baccalaureate category, 6 semester hours in systems analysis and 3 in data base management systems (7/89).

Related Occupations: 74F.

AR-1402-0122

FIRE DIRECTION OFFICER

Course Number: TS111B.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 7-8 weeks (290 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate and maintain the computer system known as TACFIRE; power up the system, load database, compose and transmit message formats, modify the operations system data base, and reconfigure the system to operate under alternative mode operations; enter, retrieve, and validate files; print plans and lists; load and perform

maintenance procedures to correct a system malfunction.

Instruction: Conference, practical exercises, simulations of operational missions, exercises to troubleshoot malfunctions, and written examinations to test competence in topics such as computer operations, processing messages, malfunctions and corrections, maintenance procedures, and computer systems functioning.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer operations (6/89).

AR-1402-0123

TACTICAL FIRE (TACFIRE) TACTICAL OPERATIONS CENTER

Course Number: TS112.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 5-6 weeks (211 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to utilize the computer system, TACFIRE, to support fire planning in a Tactical Operations Center (TOC); operate and maintain the computer system including the loading of database, composing and transmitting message formats, modifying database, reconfiguring the system for alternate mode operations, and performing tactical fire planning processes; use digital message device to provide data input; retrieve target information from files; correct for system malfunctions.

Instruction: Conference, extended practical exercises, simulated fire planning missions, malfunction simulations and written examinations on topics such as tactical fire planning, computer operations, processing messages, malfunctions and corrections, maintenance procedures and computer systems functioning.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer operations (6/89).

AR-1402-0124

TACTICAL FIRE (TACFIRE) FIRE SUPPORT ELEMENT

Course Number: TS113.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 5-6 weeks (211 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to utilize the computer system, TACFIRE, to perform planning of artillery fire support and the conduct of operations in a Fire Support Element (FSE); operate and maintain the computer system including the loading of database, composing and transmitting message formats, modifying database, reconfiguring the system for alternate mode operations, and performing fire planning processes; use special digital message device to provide data input; retrieve target information from files; correct for system malfunctions.

Instruction: Conference, extended practical exercises, simulated processes and fire planning missions, malfunction simulations and written examinations on topics such as fire planning, computer operations, processing messages, malfunctions and corrections, maintenance procedures and computer systems functioning.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer operations (6/89).

AR-1402-0125

TACTICAL FIRE (TACFIRE) OPERATIONS SPECIALIST

Course Number: TS111A.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 8 weeks (314 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate and maintain the computer system known as TACFIRE; power up the system, load data base, compose and transmit message formats, modify the operations system data base, and reconfigure the system to operate under alternative mode operations; enter, retrieve, and validate files; print plans and lists; load and perform maintenance procedures to correct a system malfunction.

Instruction: Conference, practical exercises, simulations of operational missions, exercises to troubleshoot malfunctions, and written examinations to test competence in topics such as computer operations, processing messages, malfunctions and corrections, maintenance procedures, and computer systems functioning.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer operations (6/89).

AR-1402-0126

COUNTER-SIGNALS INTELLIGENCE SPECIALIST BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 231-97G30.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 10 weeks (360 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will demonstrate technical, analytical, and managerial skills; make decisions in an intelligence setting; and perform computer simulations.

Instruction: Lectures, classroom testing and computer simulation are methods of instruction.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in management problems. See AR-1406-0090 for common core credit (6/90).

Related Occupations: 97G.

AR-1402-0127

1. MULTIDISCIPLINE COUNTERINTELLIGENCE SPECIALIST 2. COUNTER-SIGNALS INTELLIGENCE SPECIALIST

Course Number: *Version 1:* 231-97G10.
Version 2: 231-97G10.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: *Version 1:* 11 weeks (396 hours).
Version 2: 7-9 weeks (272-324 hours).

Exhibit Dates: *Version 1:* 3/93–Present.
Version 2: 1/90–2/93.

Learning Outcomes: *Version 1:* Upon completion of the course the student will be able to read maps; configure, set up, and use a data base; safeguard classified information; define

signal theory/wave propagation; and explain the intelligence and electronic warfare mission. This version is pending evaluation. *Version 2:* Upon completion of the course the student will be able to read maps; configure, set up, and use a data base; safeguard classified information; define signal theory/wave propagation; and explain the intelligence and electronic warfare mission.

Instruction: *Version 1:* Lectures, classroom testing, and computer laboratory work on the above subject areas. This version is pending evaluation. *Version 2:* Lectures, classroom testing, and computer laboratory work on the above subject areas.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in map reading and 3 in data base applications (6/90).

Related Occupations: 97G.

AR-1402-0128

MILITARY INTELLIGENCE WARRANT OFFICER TECHNICAL/TACTICAL CERTIFICATION COMMON CORE, PHASE I (Military Intelligence Common Core Phase I)

Course Number: 3A-WOTTC-CC.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 4-6 weeks (140-240 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will have a basic knowledge of military intelligence; discuss the relationship between the National Security Agency and other intelligence organizations; become familiar with the basic terms and concepts associated with data processing; and make decisions on the basis of intelligence data.

Instruction: Lectures, classroom testing, and case studies are the modes of instruction. Students also participate in a computer simulation of a warfare system in the classroom. Players make decisions as they would in the field involving battle and counterattack. The computer workstation utilizes all facets of intelligence communication and information.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in automated data processing (10/93); in the upper-division baccalaureate category, 3 semester hours in simulation exercises in decision making (10/93).

AR-1402-0130

TACTICAL AUTOMATED NETWORK TECHNICIAN WARRANT OFFICER TECHNICAL AND TACTICAL CERTIFICATION

Course Number: 4C-250B.

Location: Signal School, Ft. Gordon, GA.

Length: 19 weeks (684 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to present a formal oral report; prepare a written staff study; requisition parts and equipment; maintain property records; make inventory adjustments; maintain equipment status and maintenance records; manage and evaluate preventive maintenance systems; explain the budgeting process; explain basic computer concepts; set up a microcomputer system; use an integrated soft-

ware system including word processing, spread sheet and data base; explain the principles, capabilities, and limitations of digital multiplexed voice and data communications; explain the operation and management of a message switch network; use diagnostics to isolate faults in network equipment.

Instruction: Classroom lectures, practical exercises and tours are used to present topics in automated voice and data networks.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in technical communications, 3 in computer literacy, 3 in maintenance management, and 2 in data communications (7/92).

Related Occupations: 250B.

AR-1402-0131

SIGNAL SYSTEMS MAINTENANCE TECHNICIAN WARRANT OFFICER TECHNICAL AND TACTICAL CERTIFICATION

Course Number: 4C-256A.

Location: Signal School, Ft. Gordon, GA.

Length: 19 weeks (684 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to present a formal oral report; prepare a written staff study; requisition parts and equipment; maintain property records; make inventory adjustments; maintain equipment status and maintenance records; manage and evaluate preventive maintenance systems; explain the budgeting process; explain basic computer concepts; set up a microcomputer system; use an integrated software system including word processing, spread sheet and data base; explain the principles, capabilities, and limitations of UHF, VHF, and microwave communication systems; troubleshoot a variety of communications systems; explain site security techniques and procedures; explain communication facilities management procedures.

Instruction: Classroom lectures, practical exercises and tours are used to present topics in signal systems management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in technical communications, 3 in computer literacy, 3 in maintenance management, and 2 in electronic communications (2/94).

Related Occupations: 256A.

AR-1402-0132

COMMUNICATIONS SECURITY (COMSEC) TECHNICIAN WARRANT OFFICER TECHNICAL AND TACTICAL CERTIFICATION

Course Number: *Version 1:* 4C-250A. *Version 2:* 4C-250A.

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 19 weeks (684 hours).
Version 2: 19 weeks (760 hours).

Exhibit Dates: *Version 1:* 2/92–Present.
Version 2: 1/90–1/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to manage large radio-linked telephone networks with an emphasis on communication security concepts. *Version 2:* Upon completion of the course the student will be able to present a formal oral report; prepare a written staff study; requisition parts and equipment; maintain property records; make inventory adjustments;

maintain equipment status and maintenance records; manage and evaluate preventive maintenance systems; explain the budgeting process; explain basic computer concepts; set up a microcomputer system; use an integrated software system including word processing, spread sheet and data base; explain site security techniques and procedures; explain communication facilities management procedures.

Instruction: *Version 1:* Lectures and practical exercises on effective oral and written communication, logistics management, automatic data processing, communication security techniques, electronic warfare, training management, communication systems planning, and radio communications systems. *Version 2:* Classroom lectures, practical exercises and tours are used to present topics in communications site management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in technical communications, 3 in computer literacy, 3 in secure communication management, and 3 in communication systems maintenance management (2/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in technical communications, 3 in computer literacy, and 3 in maintenance management (6/90).

Related Occupations: 250A.

AR-1402-0133

TMDE MAINTENANCE SUPPORT SPECIALIST
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

Course Number: G2ASR32470 017.

Location: Technical Training Center, Lowry AFB, CO.

Length: 13 weeks (504 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to explain microcomputer concepts; use an integrated software system for word processing, spread sheet, and data transmission via modem; archive files; supervise and train subordinates involved in maintenance and calibration of test and measurement equipment.

Instruction: Classroom lectures and practical exercises are used to present topics in supervision and management of a test and measurement maintenance unit.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in computer literacy and 3 in maintenance management. See AR-1404-0035 for common core credit (6/90).

AR-1402-0135

INTRODUCTION TO PERSONAL COMPUTING

Course Number: PEC-C-IPC.

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 1 week (45 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will understand concepts of hardware versus software, be able to boot MS DOS machines and manipulate applications and files in DOS, and run ENABLE software, using word processing, spreadsheet, and data base modules effectively.

Instruction: Hands-on performance-based instruction with specific exercises, examples,

and problems. The course includes a mandatory laboratory commitment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in personal computers (7/90).

AR-1402-0136

SUPPLY ACCOUNTING MANAGEMENT INFORMATION SYSTEM

Course Number: SAMIS 90

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 1-2 weeks (80 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to input data into the supply accounting management information system on Burroughs/UNIS45 equipment, organize data for input, generate specific reports using the SAMIS system, understand input, output, and review data and reports generated by the SAMIS system.

Instruction: Course is performance-based, with students working with the SAMIS system, inputting data and generating reports. Evaluation is continuous, with each of 21 critical tasks.

Credit Recommendation: In the vocational certificate category, 1 semester hour in data entry operator (7/90).

AR-1402-0137

INTELLIGENT TECHNOLOGIES FOR OPERATIONS RESEARCH

Course Number: *Version 1:* ALMC-II. *Version 2:* ALMC-III.

Location: *Version 1:* Army Logistics Management College, Ft. Lee, VA. *Version 2:* Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: *Version 1:* 5 weeks (194 hours). *Version 2:* 5 weeks (196 hours).

Exhibit Dates: *Version 1:* 3/93–Present. *Version 2:* 3/91–2/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to apply expert system technologies for solving problems and will be able to integrate ORSA and Expert System for problem solving. *Version 2:* Upon completion of the course, the student will be able to apply expert system technologies for solving problems and will be able to integrate ORSA and Expert System for problem solving.

Instruction: *Version 1:* Lecture-conference, practical exercises, and case study include such topics as introduction to and applications of artificial intelligence and the Expert System. *Version 2:* Lecture-conference, practical exercises, and case study include such topics as introduction to and applications of artificial intelligence and the Expert System.

Credit Recommendation: *Version 1:* In the graduate degree category, 6 semester hours in computer science or operations research (8/95). *Version 2:* In the graduate degree category, 6 semester hours in computer science or in operations research (6/91).

AR-1402-0138

OPERATIONS RESEARCH SYSTEMS ANALYSIS
(ORSA) MILITARY SKILLS DEVELOPMENT

Course Number: ALMC-OM

Location: Army Logistics Management College, Ft. Lee, VA.

Length: 3 weeks (115-117 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to analyze and critique studies using ORSA techniques and methods and interpret their results to decision makers.

Instruction: Instruction will consist of lecture-conferences, practical exercises, and case studies and topics will include: ORSA principles and methods, probability and statistics, mathematical programming, computer programming and quantitative analysis applications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in computer programming (D-Base or Lotus 1-2-3) (6/91); in the upper-division baccalaureate category, 3 semester hours in quantitative methods (6/91).

AR-1402-0139

OPERATIONS RESEARCH SYSTEMS ANALYSIS
MILITARY APPLICATIONS 1 (ORSA MAC 1)

Course Number: ALMC-SB.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: 13 weeks (500 hours).

Exhibit Dates: 1/90–12/92.

Learning Outcomes: After 12/92 see AR-1402-0164. Upon completion of the course, the student will be able to perform operations research systems analysis (ORSA) studies, to evaluate ORSA studies, and to frame the results of ORSA studies to Department of Defense decision-makers in operational terms.

Instruction: Lecture-conferences, practical exercises and case studies will be used to cover such topics as probability and statistics, mathematical programming, mathematical modeling, decision analysis, computer programming, simulation and artificial intelligence.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer programming (DGS and Lotus), 3 in probability and statistics (6/91); in the upper-division baccalaureate category, 3 semester hours in quantitative methods (6/91); in the graduate degree category, 3 semester hours in advanced probability and statistics, 6 in advanced management mathematics, and 6 in operations research (6/91).

AR-1402-0140

OPERATIONS RESEARCH SYSTEMS ANALYSIS
MILITARY APPLICATIONS 2 (ORSA MAC 2)

Course Number: ALMC-SK.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: 2 weeks (74-77 hours).

Exhibit Dates: 1/90–12/92.

Learning Outcomes: After 12/92 see AR-1402-0164. Upon completion of the course, the student will be able to conduct ORSA studies using the latest techniques in addressing military problems.

Instruction: The instruction will consist of lecture, conference and practical exercises and will include the following topics: probability and statistics, mathematical programming,

modeling, simulations, and both decision analysis and cost/effectiveness analysis.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in quantitative methods (6/91).

AR-1402-0141

ELECTRONIC PROCESSING AND DISSEMINATION
SYSTEM OPERATOR/ANALYST

Course Number: 233-F13/3B-ASI9C.

Location: Intelligence School, Ft. Devens, MA.

Length: (318-319), 8-9 weeks.

Exhibit Dates: 1/90-3/94.

Learning Outcomes: Upon completion of the course, the student will be able to operate electronic processing and dissemination systems (AN/TSQ-134(V)(EPDS)) and perform operational analysis on the electronic order of battle (EOB) resident data base.

Instruction: Instruction includes classroom lectures, discussions, and practical exercises in the description and operation of the electronic processing and dissemination systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in computer operations (6/91).

AR-1402-0142

ENHANCED TACTICAL USERS TERMINAL OPERATOR/
ANALYST

Course Number: Version 1: 233-F14/3B-F14; 3B-F14/233-ASIT4; 3A-SI3E/ASI9C/233-ASIT4. Version 2: 233-F14/3B-F14; 3B-F14/233-ASIT4; 3A-SI3E/ASI9C/233-ASIT4.

Location: Intelligence Center and School, Ft. Huachuca, AZ. Version 2: Intelligence School, Ft. Devens, MA.

Length: Version 1: 9 weeks (315-324 hours). Version 2: 6-9 weeks (232-324 hours).

Exhibit Dates: Version 1: 5/92-Present. Version 2: 1/90-4/92.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to operate an enhanced users terminal and perform associated computer operations. This version is pending evaluation. Version 2: Upon completion of the course, the student will be able to operate an enhanced users terminal and perform associated computer operations.

Instruction: Version 1: Lectures, presentations, and practical exercises in the operation of the enhanced tactical users terminal. Includes computer files, messages, program operation, and data entry. This version is pending evaluation. Version 2: Lectures, presentations, and practical exercises in the operation of the enhanced tactical users terminal. Includes computer files, messages, program operation, and data entry.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in computer operation (6/91).

AR-1402-0143

AMMUNITION STOCK CONTROL AND ACCOUNTING
SPECIALIST BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: 551-55R30.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 9-10 weeks (347 hours).

Exhibit Dates: 7/90-9/92.

Learning Outcomes: Upon completion of the course, the student will be able to manage the instruction of small groups in a computer environment, maintain ammunition storage drawings, maintain safety data, manage ammunition assets, manage a data processing installation and supervise subordinates in a simulated combat environment.

Instruction: Lectures and practical exercises in complaint procedures, site selection, component destruction. Student will be able to interpret round reports and create hard-copy reports from disk and tape files.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to data processing. See AR-1406-0090 for common core credit (8/91).

AR-1402-0144

SOFTWARE ENGINEERING AND ADA

Course Number: None.

Location: Information Systems Software Center, Ft. Belvoir, VA.

Length: 1-2 weeks (48 hours).

Exhibit Dates: 1/91-Present.

Learning Outcomes: Upon completion of the course, the student will be able to explain the major elements of the Ada programming language, concepts and problems in software engineering, and the use of techniques developed in the Ada language as applied to solving software engineering packages.

Instruction: Lectures and written exercises in features of the Ada language, software engineering concepts, and applying features of the Ada language are covered. Course consists of three modules: Ada Overview, Software Engineering and Ada methodology, and Ada Programming Structures Overview.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to Ada, 1 in introduction to software engineering (2/92).

AR-1402-0145

DBASE III PLUS

Course Number: None.

Location: Information Systems Software Center, Ft. Belvoir, VA.

Length: 1-2 weeks (56 hours).

Exhibit Dates: 1/91-Present.

Learning Outcomes: Upon completion of the course, the student will be able to create, edit, modify, sort, enter data into and retrieve data from DBASE III+ data bases, and create simple report and label forms; use memory variables to summarize data; formulate complex queries in the DBASE III+ language; use DBASE III+ functions, change system memory variables and operating environment parameters, convert data sets between DBASE III+ and other applications such as Lotus 1-2-3; design, develop, code, execute, test, and debug DBASE III+ programs that manipulate data files; use memory variables, format the screen, and generate printed output.

Instruction: Lectures and practical exercises in creating, maintaining, modifying, and entering data into and retrieving data from DBASE III+ databases, formulating queries, using relational operations on multiple file, and creating programs in the DBASE III+ language. Course consists of three modules: Introduction

to DBASE III+. Advanced DBASE III+, and Programming in DBASE III+.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to database management and programming using DBASE III+ (2/92).

AR-1402-0146

INTRODUCTION TO DATABASE MANAGEMENT

Course Number: None.

Location: Information Systems Software Center, Ft. Belvoir, VA.

Length: 1-2 weeks (56 hours).

Exhibit Dates: 1/91-Present.

Learning Outcomes: Upon completion of the course, the student will be able to define the principles underlying a data base management system and the components of a DBMS as compared to other systems. Data models, including tree, network, and relational structures are defined and discussed as are their advantages and disadvantages. Student will become familiar with the logical as well as the physical organization of data. Normalization of data to 3NF is presented in detail. DBMS features including creation and use of a data dictionary, data definition language, and querying via SQL as well as the need for data integrity, backup, and recovery are considered. In the introduction to XDB segment of the course the student will learn to utilize the facilities of the XDB software package for microcomputers to create data of tables and field, edit input data, create indexes and query the data base via SQL commands. Commands are presented in detail to conduct basic queries, perform data manipulation, record updating, and marking and using the report writer functions.

Instruction: Class presentations, examination, and hands-on projects are included. Course consists of two modules: Introduction to Database Management Systems, and Introduction to XDB.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to data base management systems, 2 in introduction to the XDB data base software package (2/92).

AR-1402-0147

ADA PROGRAMMING LANGUAGE

Course Number: None.

Location: Information Systems Software Center, Ft. Belvoir, VA.

Length: 2 weeks (80 hours).

Exhibit Dates: 1/91-Present.

Learning Outcomes: Upon completion of the course, the student will be able to design, code, compile, link, execute, test, and debug programs in the Ada programming language that will demonstrate a knowledge of data types and classes, declarations, objects, packages, the lexical elements of the Ada language, control statements, and composite data types.

Instruction: Lectures and practical exercises in program design and development in the Ada programming language including program units, lexical elements, scalar and composite data classes, and control structures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in programming in Ada (2/92).

AR-1402-0148**C PROGRAMMING LANGUAGE****Course Number:** None**Location:** Information Systems Software Center, Ft. Belvoir, VA.**Length:** 2 weeks (80 hours)**Exhibit Dates:** 1/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to design, code, compile, link, execute, test, and debug functions and computer programs in the ANSI C programming language including computation, control logic, I/O, scalar, aggregate and complex data types, preprocessor directives and macro, pointers and argument passing.

Instruction: Lectures and practical exercises in program design and development in ANSI C including statement syntax, control flows, scalar and aggregate data types such as arrays, structures, and unions, pointers, argument passing, preprocessor syntax including macros, character and block file I/O functions, buffers and complex aggregates such as arrays of structures and C++ objects. Course consists of two modules: Introduction to the C Programming Language, and Advanced C Programming.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in programming in C (2/92).

AR-1402-0149**INTRODUCTION TO PERSONAL COMPUTERS****Course Number:** None.**Location:** Information Systems Software Center, Ft. Belvoir, VA.**Length:** 2 weeks (80 hours).**Exhibit Dates:** 1/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify data processing terminology and the components associated with a PC; explain the purpose and the proper handling of computer hardware; load and start DOS on a PC; execute DOS commands to manage files and subdirectories; create, edit, and revise text files; manipulate PC keyboard and printer data flow; create batch files and turnkey systems; create, edit, save Lotus 1-2-3 spreadsheets; perform mathematical computations; create graphs with various printer systems, and query Lotus 1-2-3 for individual records; use Wordstar or Word Perfect to create, revise, and print documents; create a dBASE III+ database and input data; edit, sort, and retrieve data; create and execute simple programs with reports; summarize data using dBASE III+ statistical commands.

Instruction: Lectures, practical exercises, to introduce students to microcomputer hardware and software, DOS and some of its more advanced commands, Lotus 1-2-3 spreadsheet package, the Wordstar or Word Perfect word processing package, and dBASE III+ database software package. Course consists of six modules: Microcomputer Overview, Introduction to MS DOS, Advanced MS DOS, Introduction to Lotus 1-2-3, Introduction to dBASE III+ and Introduction to Wordstar or Word Perfect.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to personal computers (2/92).

AR-1402-0150**INTRODUCTION TO COBOL
(Basic ANS COBOL)****Course Number:** None**Location:** Information Systems Software Center, Ft. Belvoir, VA.**Length:** 4-5 weeks (180-190 hours).**Exhibit Dates:** 1/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to develop, code, compile, and test ANS COBOL programs; create and access sequential files in an IBM environment; perform data manipulation and arithmetic operations employing complex logic; write programs employing the concepts of sorting and table processing; write JCL to support COBOL programming; locate erroneous instructions and data using system abnormal termination codes; and use binary and hexadecimal number formats to interpret and respond to system dumps.

Instruction: Lectures, practical exercises, and examinations to support: comprehensive coverage of the COBOL programming language in a structured programming environment with an emphasis on table processing; familiarization with the tools and methods to determine the cause of abnormal termination of COBOL programs. Course consists of two modules: ANS COBOL and OS/MVS COBOL Debugging.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in data processing (COBOL) (2/92).

AR-1402-0151**DATA PROCESSING PRINCIPLES****Course Number:** None.**Location:** Information Systems Software Center, Ft. Belvoir, VA.**Length:** 3 weeks (120 hours).**Exhibit Dates:** 1/91–Present.

Learning Outcomes: Upon completion of the course, the student will understand the basics of computer systems including the components of systems and computers; software overview; presentation of data by a computer and concepts of programming. The student will be knowledgeable in programming concepts including the steps in problem solving, use of charts, tables and flow charts, logic patterns, manipulation of data, and coding of alternatives. Student will understand the principles of programming using the BASIC language. Structured concepts are stressed and proficiency is developed in editing programs using BASIC commands (Let, if, then, for...next, etc.), formatting output, use of subroutines, and file processing.

Instruction: Lectures, quizzes, and examinations with a major component of hands-on experience. Course consists of three modules: Data Processing Concepts, Fundamentals of Programming, and Introduction to the BASIC Programming Language.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing principles, introduction to computers, or fundamentals of programming, and 3 in BASIC programming (2/92).

AR-1402-0152**UNIX OPERATING SYSTEM PRINCIPLES****Course Number:** None.**Location:** Information Systems Software Center, Ft. Belvoir, VA.**Length:** 2 weeks (80 hours).**Exhibit Dates:** 1/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to describe the UNIX file and directory structure; use file, directory and process commands to create, edit, maintain and remove files; use redirection to create output files and read input files; use pipes to build compound processes; create background processes, use stream editors such as sed and awk to search and process data files; create, execute, and debug simple shell scripts using variables, options, perimeters, arguments, and involving single and multiple decisions structures and counted and logical loop structures. The student will also be able to design, code, compile, link, execute test and debug functions and computer programs in the ANSI C programming language including computation, control logic, simple I/O, scalar and array data types and pointers.

Instruction: Lectures and practical exercises in the UNIX file structure, common commands, file creation and editing, redirection and pipes, foreground and background processes, stream editors, shell programming, and program design and development in ANSI C including statement syntax, control of flow, and scalar and array data types and pointers. Course consists of three modules: Fundamentals of UNIX, UNIX Shell, and Introduction to the C Programming Language.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to programming in C, 2 in introduction to UNIX (2/92).

AR-1402-0153**OPERATING SYSTEMS****Course Number:** None.**Location:** Information Systems Software Center, Ft. Belvoir, VA.**Length:** 3 weeks (120 hours).**Exhibit Dates:** 1/91–Present.

Learning Outcomes: Upon completion of the course, the student will understand the rationale behind the development, function, and use of operating systems; will be able to discuss and apply principles of comparative operating systems primarily in the IBM environment including data representation, storage and addressing, multiprogramming, job initiation, registers, and such requirements. Student will understand the function of job control language (JCL) and will be able to code JCL job streams including significant skills in the use of proper syntax for job, route, print, execute, data definition, and other statements, and will understand program stages and catalogued and in-stream procedures. Student will understand and be able to code JCL needed to involve other OS utilities including IEBUPOTE, IEBGENER, IEHLIST, and others.

Instruction: Lecture, quizzes, examinations and hand-on laboratory experiences are provided. Course consists of three modules: OS Concepts and Facilities, OS Job Control language, and OS Utilities and Workshop.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in OS utilities, 3 in OS JCL and 2 in operating systems (2/92).

AR-1402-0154

NETWORK MANAGEMENT/INFORMATION SYSTEMS
STAFF OFFICER

Course Number: 4C-25E.

Location: Signal School, Ft. Gordon, GA.

Length: 20 weeks (779 hours).

Exhibit Dates: 4/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage the integration and interconnection of diverse types of automation and communication systems into interoperable local area and longhaul information networks. Students apply techniques to determine the overall network architecture to support battlefield user requirements, exercise network control, and conduct recurring network analysis. The student will apply practical systems engineering principles to plan, design, and install tactical and nontactical information networks.

Instruction: The course uses classroom lectures and exercises. Topics include automated network management, automatic switching, mobile subscriber equipment planning, probability and statistics, reliability, maintainability and testing, quantitative testing techniques, acquisition and life cycle management, communication systems, operating system concepts, data communications, local area networks and wide area networks.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in data communications, 6 in communication systems, 3 in computer literacy, and 6 in data communications and local area networks (2/94); in the upper-division baccalaureate category, 5 semester hours in statistical mathematics and process control (2/94).

AR-1402-0155

COMMUNICATIONS-ELECTRONICS MAINTENANCE
CHIEF ADVANCED NONCOMMISSIONED
OFFICER (NCO)

Course Number: 1-29-C42.

Location: Signal School, Ft. Gordon, GA.

Length: 14 weeks (529 hours).

Exhibit Dates: 3/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to utilize basic database and spread sheets functions on MS-DOS-based computers; plan and supervise maintenance of on-site radio and data communications; and review military files and correspondence for compliance with approved formats.

Instruction: Lectures and practical exercises in elementary MS-DOS operating system and applications programs, installation and operation of mobile and wire communications systems, and maintenance of military records.

Credit Recommendation: In the vocational certificate category, 2 semester hours in communications systems operation and maintenance (2/94); in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing. See AR-1404-0035 for common core credit (2/94).

AR-1402-0156

TELECOMMUNICATIONS OPERATIONS CHIEF
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

Course Number: 101-31W40.

Location: Signal School, Ft. Gordon, GA.

Length: 19-20 weeks (733 hours).

Exhibit Dates: 10/93–Present.

Learning Outcomes: Upon completion of the course, the student will be able to plan, supervise, coordinate, operate, and manage large area radio/telephone communications systems.

Instruction: Lectures and practical exercises in computer literacy, telephone subscriber systems, digital communications, communication system planning, and radio communications systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in computer literacy and 6 in telecommunications system management. See AR-1404-0035 for common core credit (2/94).

AR-1402-0157

DATA PROCESSING TECHNICIAN WARRANT OFFICER
TECHNICAL AND TACTICAL CERTIFICATION

Course Number: 7E-251A.

Location: Signal School, Ft. Gordon, GA.

Length: 19 weeks (684 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to present a formal oral report, prepare a written staff study; requisition parts and equipment; maintain records and inventory; evaluate preventive maintenance system; explain budgetary process; explain basic computer concepts for UNIX based system; use integrated software system including word processing, spread sheet, data base, and graphics; and explain principles of high frequency data communication systems and local area networks and management.

Instruction: Classroom lectures and practical exercises for the topics in data processing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in technical communications, 3 in computer literacy, 3 in maintenance management, 2 in data communications, and 2 in local area networks (2/94).

AR-1402-0158

JOINT TACTICAL COMMUNICATIONS SYSTEM
MANAGEMENT

Course Number: 4C-F33.

Location: Signal School, Ft. Gordon, GA.

Length: 3 weeks (108 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to plan and operate joint tactical communications networks.

Instruction: The course uses classroom lectures and laboratory exercises. Topics include network architecture, transmission systems, digital group multiplexing, tactical automated message switch, and automated network planning and management.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (2/94).

AR-1402-0159

1. TELECOMMUNICATIONS COMPUTER OPERATOR-
MAINTAINER BASIC NONCOMMISSIONED
OFFICER (NCO)
2. COMMUNICATIONS COMPUTER SYSTEM REPAIRER
BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: Version 1: 150-74G30.
Version 2: 150-39G30.

Location: Signal School, Ft. Gordon, GA.

Length: Version 1: 9 weeks (342 hours).
Version 2: 7 weeks (252 hours).

Exhibit Dates: Version 1: 10/94–Present.
Version 2: 10/91–9/94.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to supervise subordinates in the establishment of data communications between data processing systems. This version is pending evaluation. Version 2: Upon completion of the course, the student will be able to supervise subordinates in the establishment of data communications between data processing systems.

Instruction: Version 1: The course uses classroom lectures and practical exercises. Topics include communications between personal computers and the DAS3 system, communications between DAS3 and TACCS, and DAS3 to DAS3 communications. This version is pending evaluation. Version 2: The course uses classroom lectures and practical exercises. Topics include communications between personal computers and the DAS3 system, communications between DAS3 and TACCS, and DAS3 to DAS3 communications.

Credit Recommendation: Version 1: Pending evaluation. Version 2: Credit is not recommended because of the military-specific nature of the course (2/94).

Related Occupations: 74G.

AR-1402-0160

CANNON FIRE DIRECTION SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 250-8-13E30.

Location: Field Artillery School, Ft. Sill, OK.

Length: 7 weeks (289 hours).

Exhibit Dates: 10/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise the battery fire direction center equipped with the battery computer system.

Instruction: Lectures and practical exercises on leadership, tactics, communication, land navigation, weapons, fire data, and maintenance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in computer operations. See AR-1406-0090 for common core credit (9/94).

Related Occupations: 13E.

AR-1402-0161

FIELD ARTILLERY TACTICAL FIRE DIRECTION
SYSTEM REPAIRER

Course Number: 160-ASIA7.

Location: Field Artillery School, Ft. Sill, OK.

Length: 7-8 weeks (277 hours).

Exhibit Dates: 11/93–Present.

Learning Outcomes: Upon completion of the course, the student will possess the skills and knowledge required to maintain, repair, and troubleshoot, down to the component level, a computer-driven fire control system.

Instruction: Lectures and laboratory exercises covering the major subsystems (computer group and central processor, magnetic tape unit, line printer, digital data terminal, digital plotter, power systems, and communications equip-

ment) and their component parts including circuit boards, wiring diagrams, and computer driven diagnostics/fault isolation. Students initiate diagnostics, interpret diagnostic codings, and use schematics and other technical documentation in conjunction with previously acquired knowledge of electronic theory and practice to identify, isolate, and repair faults, as well as perform standard operation and preventive maintenance actions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in computer system architecture and 3 in computer maintenance and troubleshooting (9/94).

AR-1402-0162

TACTICAL FIRE (TACFIRE) FIRE SUPPORT
LEADER

Course Number: 2E-514D.

Location: Field Artillery School, Ft. Sill, OK.

Length: 7 weeks (263 hours).

Exhibit Dates: 1/91-10/93.

Learning Outcomes: Upon completion of the course, the student will be able to perform and supervise fire support operations in sections equipped with the digital message device, variable format message entry device, electronic tactical display, and upgraded counterfire equipment.

Instruction: Lectures and practical exercises on the TACFIRE system, communications, ammunition data, mission control, supervision of a fire plan, and target analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in computer operations (9/94).

AR-1402-0163

LIGHT TACTICAL FIRE (LTACFIRE) OPERATOR

Course Number: 250-F39.

Location: Field Artillery School, Ft. Sill, OK.

Length: 3 weeks (120 hours).

Exhibit Dates: 6/92-Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate, employ, and maintain the light tactical fire (LTACFIRE) computer targeting system.

Instruction: Lectures and practical exercises in communications, ammunition and fire unit data, battlefield geometry, meteorological data, target intelligence, fire planning, and fire control.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in map reading and 1 in data analysis (9/94).

AR-1402-0164

OPERATIONS RESEARCH SYSTEMS ANALYSIS
MILITARY APPLICATIONS (ORSA MAC),
PHASES 1 AND 2

Course Number: Phase 2, ALMC-SB; Phase 1, ALMC-SA.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: Phase 1, 5 weeks (178 hours); Phase 2, 9 weeks (326 hours).

Exhibit Dates: 1/93-Present.

Learning Outcomes: Before 1/93 see AR-1402-0139 and AR-1402-0140. Upon comple-

tion of the course, the student will be able to perform operations research analysis and studies, and to frame the results of that research in operational terms in reports to decision-makers.

Instruction: Phase 1 provides a comprehensive section covering probability and statistics. There is inclusion of linear algebra and calculus. Also covered are computer literacy; simple linear regression; and research and study. Phase 2 presents analysis of variance; artificial intelligence; case studies; combat models; cost, economics, and operations effectiveness analysis; decision making; design and analysis of experiments; forecasting; inventory; mathematical programming; multiple linear regression; networks; queuing theory; operations research military applications process; simulation; guest speakers; and research and study. Instruction is classroom and accompanied by typical applications of the analytical techniques. Exercises, case studies, and examinations are graded to determine mastery and outside of classroom practical exercises are scheduled. Students will complete requirements for both phases to qualify for credit recommendation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer programming (DGS and Lotus) and 3 in probability and statistics (3/95); in the upper-division baccalaureate category, 3 in quantitative methods (3/95); in the graduate degree category, 3 in advanced probability and statistics, 6 in advanced management mathematics, and 6 in operations research. Credit is to be granted only upon completion of both phases (3/95).

AR-1403-0002

LEGAL SPECIALIST
(Legal Clerk)

Course Number: 512-71D10 (ST); 512-71D10.

Location: Institute for Personnel and Resource Management, Ft. Benjamin Harrison, IN.

Length: 10 weeks (345-395 hours).

Exhibit Dates: 1/90-6/90.

Objectives: After 6/90 see AR-1403-0017. To provide enlisted personnel with introductory concepts of military administrative law and Army claims systems with emphasis on the practical processing skills and procedures involved.

Instruction: Lectures on Army claims system and board proceedings, e.g. investigative boards; Article 15; nonjudicial punishment; identification and preparation of charges and specifications for summary court martial proceedings and special court martial proceedings; posttrial actions. Practical exercises in the use of basic forms in the above areas including drafting documents, application of rules of law to facts, digesting testimony, and preliminary legal research.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in typing and 4 as an elective in paralegal training (1/89).

Related Occupations: 71B; 71D.

AR-1403-0007

ADMINISTRATIVE SPECIALIST

Course Number: 510-71L10.

Location: Administration School, Ft. Jackson, SC.

Length: Self-paced, 4-10 weeks (284-327 hours).

Exhibit Dates: 1/90-Present.

Objectives: To prepare selected enlisted personnel to function as administrative clerks.

Instruction: Instruction and practical exercise in typing and assembling various types of correspondence, establishing and maintaining files, recordkeeping, and processing classified material. Top students will enter fast track, an additional 36 hours for advanced and in-depth study.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 1 in filing and 2 in business communications (9/89).

Related Occupations: 71L.

AR-1403-0010

PATIENT ADMINISTRATION SPECIALIST

Course Number: 513-71G10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 7-8 weeks (264-284 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to provide a wide range of patient support services in a health facility, including patient management, maintenance of patient records and utilization of automated hospital support systems; understand medical terminology; and prepare medical statistical reports.

Instruction: Lectures and classroom exercises in preparation, processing and review of medical records and reports; general administrative procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in medical records technology (8/93).

AR-1403-0011

UNIT/ORGANIZATION SUPPLY PROCEDURES

Course Number: LOG 73.

Location: Combined Arms Training Center, Vilsack, W. Germany.

Length: 2 weeks (71 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to review army supply publications, supply records, forms, and inventory control records; recognize when an inventory should be conducted; conduct an inventory; understand the inventory concepts of control, balance, and centralization/decentralization; apply concepts to ammunition, clothing and equipment, petroleum, oil and lubricants, meals (ready to eat), and arms.

Instruction: Lectures and practical exercises using actual forms and records.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in supply management and 1 in clerical procedures (10/88).

AR-1403-0013

PERSONNEL INFORMATION SYSTEM MANAGEMENT
SPECIALIST

Course Number: 500-75F10/75F10 (ST).

Location: Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 8-11 weeks (240-370 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to identify the components of a personnel information system, identify error conditions in the system and take corrective action, enter data, and review personnel system output reports.

Instruction: Classroom and practical exercises in the use and operation of a microcomputer, and how to enter data, process, and output data in a personnel information system.

Credit Recommendation: In the vocational certificate category, 1 semester hour in personnel recordkeeping (6/92); in the lower-division baccalaureate/associate degree category, 1 semester hour in microcomputer applications and 1 in keyboarding (6/92).

Related Occupations: 75F.

AR-1403-0014

PERSONNEL SERVICE CENTER BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 500-75C/D/E30.

Location: Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 7 weeks (263 hours).

Exhibit Dates: 1/90-9/91.

Learning Outcomes: Upon completion of the course the student will be able to review manning reports; prepare requisitions; determine eligibility for promotion; understand actions to be taken regarding pay and benefits and changes in personnel classification; execute specific applications in word processing, graphics, and spread sheets.

Instruction: Instruction includes extensive classroom lectures involving personnel record supervision, review of personnel benefits, training and leadership skills. Includes experience in word processing, graphics, and spreadsheets pertaining to personnel activities. Brief attention is given to counseling.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in office administration, and 1 in filing and records control (12/88).

Related Occupations: 75C; 75D; 75E.

AR-1403-0016

UNIT CLERK

Course Number: PEC-P-UC1.

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 2-3 weeks (97 hours).

Exhibit Dates: 3/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform basic personnel and administrative actions with emphasis on the preparation of military personnel forms.

Instruction: Lecture and in-class exercises designed to prepare the student to complete forms addressing administrative, financial, and information management actions.

Credit Recommendation: In the vocational certificate category, 2 semester hours in business systems and procedures (7/90).

AR-1403-0017

LEGAL SPECIALIST

Course Number: 512-71D10.

Location: Adjutant General School, Ft. Benjamin Harrison, IN.

Length: 9 weeks (365 hours).

Exhibit Dates: 7/90-Present.

Learning Outcomes: Before 7/90 see AR-1403-0002. Upon completion of the course the student will be able to apply rules of law within the military justice system; prepare legal documents using word processing software and using military justice terminology in proper military format.

Instruction: Lectures and discussion on concepts of Army administrative law, Army claims systems, board proceedings, nonjudicial proceedings and military separations. Practical exercises include keyboarding, use of word processing software and hardware, drafting documents, and application of rules of law.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in keyboarding, 2 in word processing, 2 in microcomputer applications, and 2 in legal writing (12/91).

Related Occupations: 71D.

AR-1404-0001

POSTAL OPERATIONS

Course Number: 510-ASIF5.

Location: Adjutant General School, Ft. Benjamin Harrison, IN; Institute for Administration, Ft. Benjamin Harrison, IN.

Length: 4-5 weeks (155-181 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide officers and enlisted personnel with the fundamental techniques and procedures of military post office management.

Instruction: Lectures in postal organization, facilities, and operations; and practical experience in mail handling.

Credit Recommendation: In the vocational certificate category, 3 semester hours in postal operations (6/92).

Related Occupations: 71F.

AR-1404-0006

SIGNAL OFFICER BASIC

Course Number: 4-11-C20.

Location: Signal School, Ft. Gordon, GA.

Length: 19-20 weeks (725-814 hours).

Exhibit Dates: 1/90-9/92.

Objectives: After 9/92 see AR-1408-0209. To provide newly commissioned officers with the basic understanding of principles of different means of communications at a tactical division communication center.

Instruction: Instruction in leadership functions, personnel and operations management, technician electronics, supply operations and military subjects.

Credit Recommendation: In the vocational certificate category, 6 semester hours in basic electricity and electronics (6/90); in the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management (6/90).

AR-1404-0009

1. RADIO OPERATOR-MAINTAINER

2. SINGLE CHANNEL RADIO OPERATOR

Course Number: *Version 1:* 201-31C10.
Version 2: 201-31C10.

Location: *Version 1:* Signal School, Ft. Gordon, GA. *Version 2:* Signal School, Ft. Gordon, GA; Southeastern Signal School, Ft. Gordon, GA.

Length: *Version 1:* 9-10 weeks (358 hours).
Version 2: 12-14 weeks (437-477 hours).

Exhibit Dates: *Version 1:* 10/95-Present.
Version 2: 1/90-9/95.

Learning Outcomes: *Version 1:* To train enlisted personnel to install, operate, and maintain field radio teletypewriter sets and related equipment. This version is pending evaluation. *Version 2:* To train enlisted personnel to install, operate, and maintain field radio teletypewriter sets and related equipment.

Instruction: *Version 1:* Lectures and practical exercises in teletypewriter set installation, operation, and maintenance, including keyboard operation proficiency, radio telegraph procedures, and equipment familiarization. This version is pending evaluation. *Version 2:* Lectures and practical exercises in teletypewriter set installation, operation, and maintenance, including keyboard operation proficiency, radio telegraph procedures, and equipment familiarization.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in typing (5/90).

Related Occupations: 05C; 31C.

AR-1404-0011

INTERNATIONAL MORSE CODE

Course Number: 231-ASIA4.

Location: Signal School, Ft. Gordon, GA.

Length: 4-8 weeks (165-288 hours).

Exhibit Dates: 1/90-Present.

Objectives: Provides student with knowledge and capability to send and receive international Morse Code at a minimum speed of 15 words per minute.

Instruction: Course includes practice in sending and receiving international Morse Code, military lettering, phonetic alphabet, and radio telegraph procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in Morse Code radio operator (1/94).

Related Occupations: 05B; 05C.

AR-1404-0029

AN/UGC-74 OPERATOR

Course Number: UGC-3.

Location: Combined Arms Training Center, Flint Kaserne, Bad Toelz, Germany.

Length: 1-2 weeks (60-74 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train radio teletypewriter operators and combat telecommunications center operators in the operation of a new teletypewriter set.

Instruction: Topics include the purpose, use, and components of a teletypewriter set, editing, transmitting, and receiving messages using the teletypewriter set.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/82).

Related Occupations: 05C; 72E.

AR-1404-0035

1. ADVANCED NONCOMMISSIONED OFFICER (NCO) COMMON LEADER (COMMON CORE)

2. ADVANCED NONCOMMISSIONED OFFICER (NCO) COMMON CORE

Course Number: *Version 1:* 400-ANCOC-MTA. *Version 2:* None.

Location: *Version 1:* NCO Academies, US *Version 2:* Installations, Continental US and overseas.

Length: *Version 1:* 2 weeks (83 hours). *Version 2:* 1-2 weeks (57 hours).

Exhibit Dates: *Version 1:* 4/94-Present. *Version 2:* 1/90-3/94.

Learning Outcomes: *Version 1:* Upon completion of the course the student will be able to provide mid-level supervision and leadership at the operational level in units of up to 50 personnel. *Version 2:* Upon completion of the course the student will be able to provide mid-level supervision and leadership in units of up to 400 personnel.

Instruction: *Version 1:* Topics include development of mid-level skills in training and motivating personnel; building morale; effective supervision of personnel; written and oral communications; the implementation of appropriate listening skills; logistics and material management; and mid-level management. *Version 2:* Includes lectures, demonstrations, and performance exercises in motivation, training, morale, supervision, effective writing, verbal communications and listening skills.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in military science and 1 in fundamentals of communications (6/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in military science, 1 in communication (4/90).

AR-1404-0037

SINGLE CHANNEL RADIO OPERATOR BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 201-31C20.

Location: Signal School, Ft. Gordon, GA.

Length: 6 weeks (216 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to supervise personnel in the installation, operation, and maintenance of radio and radio teletype equipment.

Instruction: Lectures and practical exercises in supervising the installation and maintenance of AM/single sideband radio and radio teletype systems.

Credit Recommendation: In the vocational certificate category, 1 semester hour in AM and single sideband radio communications (6/88); in the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (6/88).

Related Occupations: 31C.

AR-1404-0038

SINGLE CHANNEL RADIO TEAM CHIEF

Course Number: SIG 7.

Location: Combined Arms Training Center, Bad Toelz, W. Germany.

Length: 3 weeks (102 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to set up, operate, and maintain a radio network for secure voice and teletypewriter communications; determine appropriate antenna lengths for various types of applications; identify components of a radio teletype message, a radio teletypewriter, and encryption equipment; troubleshoot and isolate faults in DC loop circuits.

Instruction: Lectures, practical experience (hands-on and simulation), and examinations (written and performance).

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in radio and radio teletype and security (10/88).

AR-1404-0040

POSTAL SUPERVISOR

Course Number: 7A-F-59/510-ASIF-5.

Location: Soldier Support Center, Ft. Benjamin Harrison, IN.

Length: 5-6 weeks (224 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to process domestic and international mail; requisition, safeguard, and issue stamps, money orders, supplies, and equipment; maintain and audit a variety of postal accounts; operate/supervise postal service center and integrated retail terminals; and understand overall postal operations.

Instruction: Lectures, practical exercises and programmed instruction are the methods of instruction.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in postal services management (6/92).

AR-1404-0041

SPECIAL FORCES COMMUNICATIONS SERGEANT
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

Course Number: *Version 1:* 011-18E40. *Version 2:* 011-18E40.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: *Version 1:* 18-19 weeks (1051 hours). *Version 2:* 12 weeks (523-524 hours).

Exhibit Dates: *Version 1:* 10/94-Present. *Version 2:* 1/90-9/94.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to: determine communication needs; identify appropriate communication equipment; develop an extensive communication system; supervise communication systems. This version is pending evaluation. *Version 2:* Upon completion of the course, the student will be able to: determine communication needs; identify appropriate communication equipment; develop an extensive communication system; supervise communication systems.

Instruction: *Version 1:* This version is pending evaluation. Methods of instruction include lectures, practical exercises, and simulation in communication planning and applications. This version is pending evaluation. *Version 2:* Methods of instruction include lectures, practical exercises, and simulation in communication planning and applications.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in communication theory and 1 in communication practicum. See AR-1404-0035 for common core credit (12/92).

Related Occupations: 18E.

AR-1404-0042

SPECIAL FORCES COMMUNICATIONS SERGEANT
ADVANCED NONCOMMISSIONED OFFICER
(NCO) RESERVE COMPONENT PHASE 2

Course Number: 011-18E40-RC.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 3 weeks (209 hours).

Exhibit Dates: 8/91-Present.

Learning Outcomes: Upon completion of the course, the student will be able to determine communications needs; identify appropriate communications system; supervise communications systems; and develop an extensive communications system.

Instruction: Methods of instruction include lecture, practical exercises, and simulation in communication planning and application.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in communication theory and 1 in communication practicum (12/92).

Related Occupations: 18E.

AR-1404-0043

TRAFFIC ANALYSIS TECHNICIAN WARRANT OFFICER
TECHNICAL/TACTICAL CERTIFICATION
(RESERVE COMPONENT) PHASES 1 AND 2

Course Number: 3B-352C-RC.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 4 weeks (135 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage intelligence collection, using collection and processing equipment; this includes the operation of, analysis of, and evaluation of intelligence traffic.

Instruction: This course is divided into three phases: Phase 1 has nonresident instruction; Phase 2 (72 hours) and Phase 3 (58 hours) require active duty training time at the intelligence center. Lectures, field trips, and laboratory-based exercises develop capability in the analysis and reporting of intelligence traffic. Credit is based on the resident phases only.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in operations management (10/93).

AR-1404-0044

1. ELECTRONIC SWITCHING SYSTEMS OPERATOR/
MAINTAINER
2. MOBILE SUBSCRIBER EQUIPMENT (MSE)
NETWORK SWITCHING SYSTEM OPERATOR
BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 260-31F20. *Version 2:* 260-31F20.

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 12-13 weeks (475 hours). *Version 2:* 11-12 weeks (446 hours).

Exhibit Dates: *Version 1:* 10/94-Present. *Version 2:* 10/91-9/94.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to provide leadership and technical assistance, deployment, operation, and maintenance of mobile subscriber equipment communication systems. *Version 2:* Upon completion of the course, the student will be able to provide leadership and technical assistance, deployment, operation,

and maintenance of mobile subscriber equipment communication systems.

Instruction: *Version 1:* This version is pending evaluation. Classroom and practical exercises in communications equipment deployment, operation, and maintenance, including voice, switching, digital, and microwave equipment. *Version 2:* Classroom and practical exercises in communications equipment deployment, operation, and maintenance, including voice, switching, digital, and microwave equipment.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 3 semester hours in communications systems operation (2/94); in the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (2/94).

Related Occupations: 31F.

AR-1404-0045

SYSTEMS AUTOMATION 2

Course Number: 7E-F41.

Location: Signal School, Ft. Gordon, GA.

Length: 4-5 weeks (190 hours).

Exhibit Dates: 10/92-Present.

Learning Outcomes: Upon completion of the course, the student will be able to select and evaluate various software packages, evaluate and implement computer security systems, evaluate and establish data management plans, and provide leadership for large-scale software projects.

Instruction: Classroom instruction and laboratory exercises are used. Topics include computer hardware, application software, information security, and automatic data processing equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in software applications (2/94); in the upper-division baccalaureate category, 4 semester hours in system analysis and design (2/94).

AR-1404-0046

RECORD TELECOMMUNICATIONS OPERATOR-MAINTAINER

(Record Telecommunications Center Operator)

Course Number: 260-74C10.

Location: Signal School, Ft. Gordon, GA.

Length: 10-12 weeks (374-405 hours).

Exhibit Dates: 10/92-Present.

Learning Outcomes: Upon completion of the course, the student will be able to install, operate, and perform unit-level maintenance on tactical telecommunication centers and type messages at a minimum speed of 25 wpm with no less than 95 percent accuracy.

Instruction: Includes computer operations and associated CAI typing using MS-DOS 2.1 and Typing Tutor IV programs. Contains exercises in installation, operation, and unit-level maintenance on telecommunications shelters, associated COMSEC devices, and power generators; procedural functions in message formatting by typing; and processing incoming/outgoing messages within an automated switching center.

Credit Recommendation: In the vocational certificate category, 3 semester hours in communication system operation and maintenance (3/95); in the lower-division baccalaureate/

associate degree category, 2 semester hours in keyboarding (3/95).

AR-1404-0047

1. RECORD TELECOMMUNICATIONS CENTER OPERATOR BASIC NONCOMMISSIONED OFFICER (NCO)

2. RECORD TELECOMMUNICATIONS CENTER OPERATOR

Course Number: *Version 1:* 260-74C30. *Version 2:* 260-74C20.

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 9-10 weeks (355 hours). *Version 2:* 9 weeks (335 hours).

Exhibit Dates: *Version 1:* 10/93-Present. *Version 2:* 10/92-9/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to manage a tactical and strategic telecommunications center and perform mail server procedural functions in an automated message switching center. *Version 2:* Upon completion of the course, the student will be able to perform as a combat first-line supervisor in tactical and strategic telecommunications centers and perform mail server procedural functions in an automated message switching center.

Instruction: *Version 1:* Supervisory and operational exercise in a strategic telecommunication center such as message processing, service actions; communication security duties such as processing incoming and outgoing messages, performing inventories, and safeguarding materials; unit level maintenance of the center; preparation of reports, automated message switching; overseeing distribution functions, and managing inquiries and annual reports. *Version 2:* Supervisory and operational exercise in a strategic telecommunication center; such as message processing, service actions, unit level maintenance of the center, preparation of reports and automated message switching using DINAH Software for an AUTODIN Mail Server.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in computer literacy. See AR-1406-0090 for common core credit (7/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in computer literacy. See AR-1406-0090 for common core credit (7/95).

AR-1405-0024

MEDICAL SUPPLY SPECIALIST

(Medical Supply Procedures)
(Medical Material Procedures)

Course Number: 8-E-44; 551-767.1; 551-76J20; 551-76J10.

Location: Medical Field Service School, Ft. Sam Houston, TX; Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 5-7 weeks (182-242 hours).

Exhibit Dates: 1/90-10/93.

Objectives: After 11/93 see AR-1405-0241. To train enlisted personnel in medical supply procedures.

Instruction: This course provides lectures in publications, property control and stock-accounting procedures, supply and services procedures at the installation level, and a survey of management methods.

Credit Recommendation: In the lower-division baccalaureate/associate degree cate-

gory, 3 semester hours in stock control accounting and inventory management (7/87).

Related Occupations: 098; 76A; 76J.

AR-1405-0061

UNIT SUPPLY SPECIALIST ADVANCED INDIVIDUAL TRAINING (Unit Supply Specialist)

Course Number: 552-76Y10.

Location: Quartermaster School, Ft. Jackson, SC; Quartermaster Center and School, Ft. Lee, VA.

Length: 7-8 weeks (254-280 hours).

Exhibit Dates: 1/90-9/90.

Objectives: After 9/90 see AR-1405-0235. To train selected enlisted personnel to perform supply duties and to maintain small arms.

Instruction: Lectures and practical exercises in supply operations and the maintenance of small arms. Course includes basic mathematics, typewriting, use of technical publications, unit and organization supply procedures, and organizational maintenance of small arms.

Credit Recommendation: In the vocational certificate category, 1 semester hour in records maintenance, 1 in supply supervision and maintenance (10/90).

Related Occupations: 76Y.

AR-1405-0065

DEFENSE REUTILIZATION AND MARKETING OPERATIONS ADVANCED (Defense Advanced Disposal Management)

Course Number: *Version 1:* 8B-F17. *Version 2:* 8B-F17.

Location: *Version 1:* Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA. *Version 2:* Army Logistics Management College, Onsite at various locations; Army Logistics Management Center, Ft. Lee, VA.

Length: *Version 1:* 3 weeks (114-115 hours). *Version 2:* 3 weeks (115 hours).

Exhibit Dates: *Version 1:* 9/93-Present. *Version 2:* 1/90-8/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be proficient in the management of property disposal activities. *Version 2:* Upon completion of the course, the student will be proficient in management of property disposal activities.

Instruction: *Version 1:* Methods of instruction include lecture-conference, case study, guest speakers, student presentation, and practical exercises. Topics include management principles and techniques, Department of Defense disposal program, and management of disposal operations marketing by and administration of holding activities, property control, materiel processing, and contracting procedures. *Version 2:* Lecture-conferences, practical exercises, and cases in property disposal management. Topics include management principles and techniques, Department of Defense disposal program, and management of disposal operations marketing by and administration of holding activities, property control, materiel processing, and contracting procedures.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in principles of management, 1 in management communications, and 1 in contract law (8/95). *Version 2:* In the lower-division

baccalaureate/associate degree category, 1 semester hours in general management (10/89).

Related Occupations: 411A, 621A, 630A, 631A, 632A

AR-1405-0069

QUARTERMASTER OFFICER BASIC

Course Number: 8-10-C20-81A/82A/92A

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 19 weeks (794 hours).

Exhibit Dates: 1/90-9/92.

Objectives: After 9/92 see AR 1405-0236. To train newly commissioned quartermaster officers for their first duty assignment.

Instruction: Lectures and practical exercises in basic quartermaster officer training, including officer orientation, skill functions, unit functions, combined arms, and skill application. Practical exercises, conferences, demonstrations, film and television, seminars, case studies, and examinations all present materials designed to train newly commissioned quartermaster officers as either petroleum, subsistence supply, or supply and service management officers. Course covers officer orientation and professional development, unit logistics and functions, unit supply and maintenance, materiel management, automatic data processing, subsistence management, food service management, petroleum operations, and water supply operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to management, 2 in supply management (8/85); in the upper-division baccalaureate category, 4 semester hours in organizational behavior (8/85).

AR-1405-0074

ORDNANCE MAINTENANCE MANAGEMENT OFFICER BASIC

Course Number: 4-9-C20-91A; 4-9-C20-91B.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 19-20 weeks (669-759 hours).

Exhibit Dates: 1/90-8/91.

Learning Outcomes: Upon completion of the course, the student will be able to perform the duties of a vehicle maintenance administrator which would include logistics, instructions, communications, and skills and knowledge required for vehicle maintenance.

Instruction: Lectures, demonstrations, and practical exercises in unit administration, logistics, supply, effective communications and the skills and knowledge required for vehicle maintenance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in communication skills and 2 in automotive/heavy equipment fundamentals (3/87); in the upper-division baccalaureate category, 3 semester hours in principles of supervision, 3 in vehicle maintenance management, 2 in fundamentals of instruction, and 4 in logistics (3/87).

AR-1405-0103

MAJOR ITEM MANAGEMENT (ALMC-MH)

Course Number: ALM-41-0339; ALMC-MH.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management Center, Ft. Lee, VA.

Length: 2-3 weeks (98-114 hours)

Exhibit Dates: 1/90-Present.

Objectives: To develop and increase knowledge and understanding of materiel managers in the management of major items.

Instruction: Methods of instruction include lecture-conferences, practical exercises, workshops, and computer-assisted simulations within decision making exercises. The course covers the entire life cycle of major items from the entry of new equipment to the inventory to the ultimate disposal of the equipment.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in management of high value equipment (7/87).

AR-1405-0110

STORAGE SUPPLYMAN NONCOMMISSIONED OFFICER (NCO) ADVANCED

Course Number: None.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 4-5 weeks (134 hours).

Exhibit Dates: 1/90-1/90.

Objectives: To provide enlisted personnel with knowledge and skills required to perform as noncommissioned officers.

Instruction: Types of instruction include lectures, conferences, case studies, demonstrations, and practical exercises. Topics include management of supplies, storage operations management, organizational effectiveness, and inventory management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in organizational behavior, 3 in supply management (8/85).

AR-1405-0114

LOGISTICS MANAGEMENT FOR AUDITORS

Course Number: ALM-41-0251.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management Center, Ft. Lee, VA.

Length: 2 weeks (64 hours).

Exhibit Dates: 1/90-Present.

Objectives: To inform audit personnel of Army logistics functions, systems, facilities and activities.

Instruction: Methods include lectures, guest speakers, practical exercises, and the use of simulated models of the logistics system throughout the Army. Course includes differentiation of management systems comprising the Department of Army wholesale and retail systems and their relationship to planning, programming, and controlling functions.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in auditing of the materiel management function (5/81).

AR-1405-0116

DEFENSE REVITALIZATION AND MARKETING PROPERTY ACCOUNTING (Defense Integrated Disposal Management System)

Course Number: ALM-44-0282; ALMC-IC.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management Center, Ft. Lee, VA; Army Logistics Management College, Ft. Lee, VA.

Length: 2-3 weeks (77-114 hours).

Exhibit Dates: 1/90-7/93.

Objectives: After 7/93 see AR-1405-0243. To improve the proficiency of personnel engaged in recordkeeping functions so that they can initiate and maintain accurate computerized property records and be able to use management output listings for the control of property at the Defense Revitalization and Marketing Office.

Instruction: Instructional methods include the use of lecture-conferences, practical exercises, study group workshops, guest speakers, examinations, and critiques. Topics include automated recordkeeping procedures related to property disposal, transfers, sales, adjustments, and reversals.

Credit Recommendation: In the vocational certificate category, 3 semester hours in data entry and automated systems output (10/89).

AR-1405-0118

COMMODITY COMMAND STANDARD SYSTEM (CCSS) FUNCTIONAL

Course Number: ALM-56-M115; ALMC-3L.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management Center, Ft. Lee, VA; Army Logistics Management College, Ft. Lee, VA.

Length: 2 weeks (69-80 hours).

Exhibit Dates: 1/90-8/92.

Objectives: After 8/92 see AR-1405-0244. To enhance the ability of those working at the Army Material Development and Readiness Command to perform their duties more efficiently and effectively through the utilization of a particular automated system.

Instruction: Methods of instruction include lecture-conferences, practical exercises, workshops, videotaped lectures, and computer-assisted simulation. Topics include logistics management concepts, computerized data systems, and how the above interface with the initial provisions and replenishment cycles.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in automated systems in logistics management (8/90).

AR-1405-0123

AUTOMATED INVENTORY MANAGEMENT

Course Number: Version 1: 8B-F22/551-F22. Version 2: 8B-F22; 8B-F22/551-F22.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: Version 1: 2 weeks (82 hours). Version 2: 2 weeks (83-84 hours).

Exhibit Dates: Version 1: 3/96-Present. Version 2: 1/90-2/96.

Learning Outcomes: Version 1: This version is pending evaluation. To provide a functional knowledge of automated inventory management procedures to include concepts and interface with other automated and manual supply management functional areas. Version 2: To provide a functional knowledge of automated inventory management procedures to include concepts and interface with other automated and manual supply management functional areas.

Instruction: *Version 1:* This version is pending evaluation. Conference, self-study, and practical exercises in inventory management, data processing and storage, and purchase procedures. *Version 2:* Conference, self-study, and practical exercises in inventory management, data processing and storage, and purchase procedures.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in management science (5/87).

AR-1405-0140

COMBAT SERVICES SUPPORT PRE-COMMAND

Course Number: 2G-F46.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 2 weeks (77 hours).

Exhibit Dates: 1/90–Present.

Objectives: To assist individuals in preparation for large organizational management responsibilities and to ensure a common understanding of training, personnel, logistics management, and tactical doctrine. This is a refresher course for selected management level personnel.

Instruction: Discussions, lectures, tours, and reviews in management concepts to include supply, maintenance, and training management; logistics management appropriate to this unit is also covered.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in senior seminar in logistics management (8/88).

AR-1405-0145

FACILITIES ENGINEERING SUPPLY SYSTEM MANAGEMENT

Course Number: ALMC-SC.

Location: Army Logistics Management Center, Ft. Lee, VA.

Length: 2 weeks (79 hours).

Exhibit Dates: 1/90–Present.

Objectives: To develop the operational and management skills required for positions in the automated environment of Facilities Engineering Supply System.

Instruction: Course covers the operation of the FESS system daily operation, systems interface, data input, management and system reports, and procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in automated supply systems (3/86).

AR-1405-0146

ORDNANCE OFFICER ADVANCED MUNITIONS MATERIEL MANAGEMENT FIELD OPERATIONS

Course Number: 4E-F0A-F10.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 4 weeks (152 hours).

Exhibit Dates: 1/90–Present.

Objectives: To prepare the company grade officer to function as a company commander in support of munitions materiel.

Instruction: Personnel will receive training to include war planning strategies, battalion materiel operations and standard army ammunition systems reports and decision making.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (4/86).

AR-1405-0147

ORDNANCE OFFICER ADVANCED MISSILE MATERIEL MANAGEMENT FIELD OPERATIONS

Course Number: FE-F0A-F19.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 3 weeks (110 hours).

Exhibit Dates: 1/90–1/96.

Objectives: To prepare company grade ordnance officer to function effectively as commander or officer in support of missile systems.

Instruction: Personnel will receive training to include equipment and logistics updates, and management concepts and policy at the brigade level and below, for air defense, land combat and ballistic weapons systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (4/86).

AR-1405-0148

ORDNANCE OFFICER ADVANCED WHOLESALE MISSILE/MUNITIONS MATERIEL MANAGEMENT

Course Number: 4F-F0A-F20; 4E-F0A-F11.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 4 weeks (152 hours).

Exhibit Dates: 1/90–1/96.

Objectives: To prepare the company grade ordnance officer to function as a company materiel manager assigned to any one of the various munitions commodity commands, depots, and as ammunition plant executive officer.

Instruction: Personnel receive training which includes logistics management, budget system overview and mission area analysis. Students receive an overview of ammunition industrial base management and an understanding of the Army Ammunition Management System.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (4/86).

AR-1405-0150

ORDNANCE OFFICER ADVANCED MAINTENANCE MANAGEMENT

Course Number: 4-9-C22-91A.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 20 weeks (720 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to lead and train personnel, provide personnel with management concepts of designated systems and equipment, test, evaluate production and procurement, supply and storage.

Instruction: Instruction includes logistics, procurement, management (finances, personnel and equipment) law, communication skills.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in financial management (3/87); in the upper-division baccalaureate category, 3 semester hours in maintenance manage-

ment, 3 in personnel management, and 1 in logistics (3/87).

Related Occupations: 91A.

AR-1405-0151

ORDNANCE MAINTENANCE MANAGEMENT OFFICER ADVANCED

Course Number: 4-9-C22-91A-RC.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: Phase 2, 2 weeks (66 hours); Phase 4, 2 weeks (66 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to understand and carry out management duties required by the student's specialty.

Instruction: Instruction includes maintenance management procedures, inventory management. Credit is recommended based on the two resident phases. Phases I and III are taken by correspondence and are not prerequisite to the resident phases.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in maintenance management and 1 in inventory management (3/87).

AR-1405-0152

REPAIR SHOP TECHNICIAN WARRANT OFFICER ADVANCED

Course Number: 4-9-C32-441A.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 12 weeks (429-445 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage a repair shop maintenance facility, operate and maintain machine shop equipment, operate and maintain welding equipment, and keep maintenance records on equipment coming into repair shop.

Instruction: Instruction includes lectures and hands-on with emphasis on management and communication skills, general shop operations, body repair, welding with considerable emphasis on machine shop operation and maintenance management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in communication skills, 1 in management, 1 in heavy equipment maintenance management, 6 in general machine shop, 2 in welding, and 1 in body repair (3/87).

Related Occupations: 441A.

AR-1405-0153

LIGHT SYSTEMS MAINTENANCE TECHNICIAN WARRANT OFFICER ADVANCED

Course Number: 4-9-C32-630B.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 14 weeks (610-620 hours).

Exhibit Dates: 1/90–9/90.

Learning Outcomes: Upon completion of the course, the student will be able to maintain, manage, and keep maintenance records on light and medium duty equipment. Also be able to troubleshoot and make repairs on light and medium duty equipment through a management position.

Instruction: Instruction includes lectures and hands-on with emphasis on management,

maintenance management, and communication skills. Considerable emphasis is placed on troubleshooting and repair on light and medium duty equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in communication skills, 1 in management, 3 in heavy equipment maintenance management, 1 in automotive electrical systems, and 3 in diesel and heavy equipment mechanics (3/87).

AR-1405-0154

ORDNANCE OFFICER-ADVANCED MAINTENANCE
ADDITIONAL SPECIALTY

Course Number: 4N-91A

Location: Ordnance Center and School, Aberdeen Proving Ground, MD

Length: 11 weeks (406-407 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to administer facilities, personnel, financial, contract maintenance and logistics management status reports to upper management and administrative levels.

Instruction: Instruction includes management in the areas of organizational, financial, material, maintenance and contract management and logistics.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in maintenance management, 3 in material management, and 1 in logistics (3/87).

AR-1405-0155

AMMUNITION STOCK CONTROL AND ACCOUNTING
SPECIALIST

Course Number: 551-55R10/551-55R10-RC.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 8-9 weeks (300 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course, the student will be able to identify demolition materials, pyrotechnics, and explosives; keep proper records, stock and inventory control of ammunition; understand computer printouts, register, and lot location records as well as computerized subsystems; and perform basic duties as a supply clerk.

Instruction: Lectures and hands-on training with data processing equipment, discussion, role playing, and testing in data processing, inventory and stock control, and record keeping.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in stock control and 2 in introduction to data processing (8/91).

Related Occupations: 55R.

AR-1405-0156

ORDNANCE MISSILE MATERIEL MANAGEMENT
OFFICER-RESERVE

Course Number: None.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 4 weeks (412 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course, the student will understand and practice techniques of good management;

develop an understanding and awareness of maintenance personnel and assist in improvement of their skills; understand and practice proper storage procedures, inventory control, and logistics.

Instruction: Lectures, discussions, tests, and role playing in management skills and responsibilities, demands upon materials management, and evaluation of shop supply operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management (4/88).

AR-1405-0157

ORDNANCE MUNITIONS MATERIEL MANAGEMENT
OFFICER-RESERVE

Course Number: None.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 4 weeks (412 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will have a working knowledge of the Standard Army Ammunition System and its distribution channels from manufacturer to user; understand and utilize the Army's management system for maintenance and upkeep of ammunition.

Instruction: Discussion, lecture, and field training in munitions fundamentals, organization and management. Only the two resident phases (Phase 2 and Phase 4) were evaluated.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (4/88).

AR-1405-0158

ORDNANCE MUNITIONS MATERIEL MANAGEMENT
OFFICER-BASIC

Course Number: 4-9-C20-91D.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 18-19 weeks (750 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to write, interpret, and follow training plans and objectives and to follow these plans through performance objectives; understand and utilize communication techniques including letter and report writing; develop leadership and decision making techniques; and understand and interpret financial management and budgeting, as well as be able to recognize and analyze problems in budgeting.

Instruction: Includes logistical subjects such as support shop operations, direct support supply/maintenance exercises and logistical assistance. Also includes unit and organizational management, combined arms, and tactical field training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of finance (4/88); in the upper-division baccalaureate category, 3 semester hours in principles of management (4/88).

AR-1405-0159

ORDNANCE MUNITIONS MATERIEL MANAGEMENT
OFFICER-BASIC

Course Number: 4-9-C20-91C.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 18-19 weeks (750 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course the student will be able to write, interpret, and follow training plans and objectives and to follow these plans through performance objectives; understand and utilize communication techniques including letter and report writing; develop leadership and decision making techniques; and understand and interpret financial management and budgeting, as well as be able to recognize and analyze problems in budgeting.

Instruction: Includes logistical subjects such as support shop operations, direct support supply/maintenance exercises and logistical assistance. Also includes unit and organizational management, combined arms, and tactical field training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of finance (4/88); in the upper-division baccalaureate category, 3 semester hours in principles of management (4/88).

AR-1405-0160

STANDARD ARMY AMMUNITION SYSTEM (SAAS)
MANAGER TRAINING

Course Number: 8B-F44/551-F16.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 2 weeks (75 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to understand the internal operation and responsibilities of the SAAS; perform minor tasks in the data processing area of supply; and understand the requisition and reporting procedures for the SAAS.

Instruction: Topics include stock control/stock accounting, documentation of data processing procedures and structures. Mode is lectures, discussions, and the use of manuals. Includes hands-on training with computer equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in data input (4/88); in the lower-division baccalaureate/associate degree category, 3 semester hours in stock management and control (4/88).

AR-1405-0161

MATERIEL CONTROL AND ACCOUNTING SPECIALIST
BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 551-76P30.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 7 weeks (252 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise the use of procedures in operating both manual and automated supply systems, including knowing proper inventory-taking procedures.

Instruction: Lectures, demonstrations, practical exercises, and examinations in supervising operations of a manual and an automated supply system, including procedures for conduct of a physical inventory.

Credit Recommendation: In the vocational certificate category, 3 semester hours in supply

supervision, 1 in computerized record-keeping (10/88); in the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (10/88).

Related Occupations: 76P.

AR-1405-0162

UNIT SUPPLY SPECIALIST ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 552-92Y40.
Version 2: 552-76Y40. *Version 3:* 552-76Y40.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 8-9 weeks (317 hours).
Version 2: 8-9 weeks (313-316 hours). *Version 3:* 8 weeks (283 hours).

Exhibit Dates: *Version 1:* 10/95–Present.
Version 2: 10/92–9/95. *Version 3:* 1/90–9/92.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to supervise the requesting and receiving of supply items and the property accounting function. *Version 2:* Upon completion of the course, the student will be able to supervise the requesting and receiving of supply items and the property accounting function. *Version 3:* Upon completion of the course, the student will be able to supervise the requesting and receiving of supply items and the property accounting function, and will understand computerized record-keeping.

Instruction: *Version 1:* This version is pending evaluation. Lectures, discussions, practical exercises, and examinations in supply management and transportation management. *Version 2:* Lectures, discussions, practical exercises, and examinations in supply management and transportation management. *Version 3:* Lectures, class discussions, practical exercises, and examinations in computerized record-keeping, supply management including supply of bulk petroleum, and in transportation management.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in material management or supply management. See AR-1404-0035 for common core credit (2/93). *Version 3:* In the vocational certificate category, 1 semester hour in computerized record-keeping (2/93); in the lower-division baccalaureate/associate degree category, 6 semester hours in materiel management or supply management. See AR-1404-0035 for common core credit (2/93).

Related Occupations: 76Y; 92Y.

AR-1405-0163

MATERIEL STORAGE AND HANDLING SPECIALIST
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

Course Number: 551-76V40.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: (257-259), 7-8 weeks.

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise warehouse storage and materiel handling operations.

Instruction: Lectures, demonstrations, practical exercises and examinations in storage operations. Topics include storage operations, selection of materiel handling equipment, qual-

ity assurance for supplies in storage, preservation and repacking, and maintenance of storage records.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in material management. See AR-1404-0035 for common core credit (10/88).

Related Occupations: 76V.

AR-1405-0164

MATERIEL STORAGE AND HANDLING SPECIALIST
BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 551-76V30.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 5-6 weeks (211-213 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise storage operations and the taking of inventories; be familiar with the techniques for preservation and packing of materials; and be able to perform computerized record keeping.

Instruction: Lectures, demonstrations, and practical exercises and examinations in storage operations, inventory control, preservation of supplies, packing operations, and the processing of transactions in a computerized supply system.

Credit Recommendation: In the vocational certificate category, 3 semester hours in inventory control, 1 in record-keeping (10/88); in the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (10/88).

Related Occupations: 76V.

AR-1405-0165

STANDARD PROPERTY BOOK SYSTEM FUNCTIONAL

Course Number: 8A-F32/552-F2.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 3 weeks (108-119 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to prepare input transactions, understand the processing function, and read and interpret reports of a computerized inventory control system.

Instruction: Includes classroom lectures and practical exercise (hands-on) in preparing input transactions, reading reports, identifying system codes, and other clerical tasks involved in the use of a computerized inventory control system.

Credit Recommendation: In the vocational certificate category, 1 semester hour in inventory control and 1 in computerized record keeping (10/88).

AR-1405-0166

1. STANDARD PROPERTY BOOK SYSTEM-
REDESIGNED-INSTALLATION/TABLE OF
DISTRIBUTION AND ALLOWANCES
2. STANDARD PROPERTY BOOK SYSTEM
REDESIGNED

Course Number: *Version 1:* 8B-F46/551-F23. *Version 2:* 8B-F46/551-F23.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 3 weeks (108 hours).
Version 2: 4 weeks (152 hours).

Exhibit Dates: *Version 1:* 10/95–Present.
Version 2: 1/90–9/95.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will understand the operating procedures, prepare input transactions, understand the processing functions, and read and interpret reports of a microcomputer-based inventory control system. *Version 2:* Upon completion of the course, the student will understand the operating procedures, prepare input transactions, understand the processing functions, and read and interpret reports of a microcomputer-based inventory control system.

Instruction: *Version 1:* This version is pending evaluation. Includes classroom instruction, demonstrations, and practical (hands-on) exercises in the basic operations of a microcomputer, and the preparation of input transactions, the processing of the transactions, and reading reports of an automated inventory control system. *Version 2:* Includes classroom instruction, demonstrations, and practical (hands-on) exercises in the basic operations of a microcomputer, and the preparation of input transactions, the processing of the transactions, and reading reports of an automated inventory control system.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 1 semester hour in inventory control, 1 in computerized record keeping (10/88).

Related Occupations: 761A; 76Y; 76Z; 92A; 92B.

AR-1405-0167

NONCOMMISSIONED OFFICER (NCO) LOGISTICS
PROGRAM

Course Number: 551-F5; 551-SQIK.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 6 weeks (209 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of this course, the student will understand the processes involved in logistics management and will have the knowledge to function in all levels of an organization.

Instruction: Classroom lectures and practical exercises enable the student to understand the requirements of logistics operation as it applies to many levels of an organization; supply, ammunition, transportation, and maintenance. Automated systems are introduced in support of the logistics function.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to logistics (1/91).

AR-1405-0169

STANDARD ARMY INTERMEDIATE LEVEL SUPPLY
(SAIL)
(Standard Army Intermediate Level Supply
(SAILS) ABX)

Course Number: 551-ASIF3.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 4 weeks (144-148 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will understand the processes involved in operating an automated supply system.

Instruction: A significant number of classroom exercises and some lectures designed to introduce the student to the processes involved in operating an automated supply system to support all aspects of an inventory control operation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in inventory control and 1 in computerized record keeping (5/96).

Related Occupations: 76J, 76P, 76V, 76W, 76Z.

AR-1405-0170

GENERAL SUPPLY TECHNICIAN WARRANT OFFICER
TECHNICAL CERTIFICATION

Course Number: 8B-761A.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 9 weeks (324-343 hours).

Exhibit Dates: 1/90-10/90.

Learning Outcomes: Upon completion of the course, the student will be able to manage a property accounting function, know the fundamentals of stock fund accounting, and know the basic concepts of microcomputer applications; will also be able to solve problems in the use of an integrated supply management system.

Instruction: Lectures, class discussion, demonstrations, case studies, and practical exercises in property accounting, maintenance management, governmental accounting (stock funds, microcomputer applications), and integrated supply management systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in microcomputer applications, 1 in governmental accounting, and 3 in material management (10/88).

Related Occupations: 761A.

AR-1405-0173

SENIOR SUPPLY/SERVICES SERGEANT

Course Number: 551-76Z50.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 10 weeks (360 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage supply and service operations in large organizations. This entails the planning and coordination of personnel and equipment for large stationary as well as mobile operations.

Instruction: Methods of instruction include lectured instruction, group discussions, practical exercises and written examinations. Topics covered include supply and service operations, leadership, automated supply systems, supervision techniques, staffing procedures, relationship of supply to other logistical functions to include maintenance, transportation, and management of these functions in a large organization. Also includes procurement and types of physical inventories.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in supply and service management (10/88).

Related Occupations: 76Z.

AR-1405-0174

SUBSISTENCE SUPPLY SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 551-76X30

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 3-4 weeks (180 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will understand the basics of supervision, motivation, and management of subordinates, understand the inventory control process, utilize an inventory system, calculate supply requisitions

Instruction: Classroom lecture, seminars, and practical exercises pertaining to the inventory control processes of requisitioning, receipts, storage, security, and issue of supplies, use of an inventory system to control the above; motivate and supervise subordinates to meet the objectives of an organization responsible for an inventory control function.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hours in principles of supervision, 2 in inventory control/materials management. See AR-1406-0090 for common core credit (10/88).

Related Occupations: 76X.

AR-1405-0175

EQUIPMENT RECORDS AND PARTS SPECIALIST
ADVANCED INDIVIDUAL TRAINING

Course Number: 551-76C10.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 10-11 weeks (370-375 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to function as a clerk in organizations requiring clerical operations in manual as well as automated situations.

Instruction: Practical exercises, demonstrations, and some classroom lectures provide the student with the skills necessary to be a stock clerk including parts inventory maintenance, use of catalogs and reference materials, completion of forms, processing repair parts and preventive maintenance document keeping.

Credit Recommendation: In the vocational certificate category, 4 semester hours in stock keeping or parts inventory control (10/88).

Related Occupations: 76C.

AR-1405-0176

1. DIRECT SUPPORT UNIT STANDARD SUPPLY SYSTEM
2. DIRECT SUPPORT UNIT STANDARD SUPPLY SYSTEM (DS4)

Course Number: *Version 1:* 8B-F37/551-ASIT8. *Version 2:* 8B-F37/551-ASIT8.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 3 weeks (109 hours). *Version 2:* 4 weeks (144 hours).

Exhibit Dates: *Version 1:* 7/93-Present. *Version 2:* 1/90-6/93.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to manage the inventory control function using a standard supply system. *Version 2:* Upon completion of the course, the student will be able to manage the inventory control function using a standard supply system.

Instruction: *Version 1:* This version is pending evaluation. Lectures, simulations, and

practical exercises in managing the inventory control function utilizing a standard supply system. Topics include processing supply requisitions and receipts, producing demand analysis and economic order quality listings, and conduct of an inventory using the standard system. *Version 2:* Lectures, simulations, and practical exercises in managing the inventory control function utilizing a standard supply system. Topics include processing supply requisitions and receipts, producing demand analysis and economic order quality listings, and conduct of an inventory using the standard system.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 2 semester hours in inventory control, warehousing, and/or storekeeping, 1 in computerized record keeping (10/88); in the lower-division baccalaureate/associate degree category, 2 semester hours in inventory management (10/88).

AR-1405-0177

SUPPLY AND SERVICES MANAGEMENT OFFICER

Course Number: *Version 1:* 8B-92A/B/8B-920A/920B. *Version 2:* 8B-92A/B/8B-920A/920B.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 5-6 weeks (210 hours). *Version 2:* 8-9 weeks (313-331 hours).

Exhibit Dates: *Version 1:* 1/95-Present. *Version 2:* 1/90-12/94.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course the student will understand the processes involved in logistics management for all classes of supply and field services. *Version 2:* Upon completion of the course the student will understand the processes involved in logistics management for all classes of supply and field services.

Instruction: *Version 1:* This version is pending evaluation. Classroom lectures and practical exercises to enable student to understand the management of a logistics operation including facets of stock ordering, receipt, control, and movement. *Version 2:* Classroom lectures and practical exercises to enable student to understand the management of a logistics operation including facets of stock ordering, receipt, control, and movement.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in inventory control or material management, 1 in microcomputer applications (5/90).

AR-1405-0178

MATERIEL CONTROL AND ACCOUNTING SPECIALIST
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

Course Number: 5-761-C42.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 4 weeks (145 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise the use of manual and automated inventory control procedures, including constructing the data base; and will understand the flow of requests from customers to source of supply.

Instruction: Lectures, demonstration, and practical exercises in inventory control procedures including use of an automated supply system. Topics include preparation of support parameter cards, constructing a data base, processing and editing supplying requests, and the flow of requests from customer to the source of the supply.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management. See AR-1404-0035 for common core credit (10/88).

AR-1405-0179

MATERIEL STORAGE AND HANDLING SPECIALIST ADVANCED INDIVIDUAL TRAINING

Course Number: 551-76V10.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 6-7 weeks (246 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to serve as a materials handling and packaging storage operator familiar with an automated supply system.

Instruction: Lectures, demonstrations, and operation of equipment. Topics include packing and crating, warehousing, materials handling and inventory of physical items and of petroleum products. Also included is familiarization with use of an automated supply system.

Credit Recommendation: In the vocational certificate category, 3 semester hours in materials handling and storage (10/88).

Related Occupations: 76V.

AR-1405-0180

TROOP SUBSISTENCE ACTIVITY MANAGEMENT

Course Number: 8E-F3/551-F15.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 4 weeks (144 hours).

Exhibit Dates: 1/90–10/90.

Learning Outcomes: Upon completion of the course, the student will be able to utilize basic management skills and knowledge in tandem with administrative and warehousing practices and procedures in effectively conducting troop issue subsistence activities. Student will understand and use a basic food management information system related to the troop issue subsistence activity.

Instruction: Methods of instruction include lectures, a comprehensive warehouse practical exercise, review, and written test. Course content includes management functions, supervisory skills development, subsistence record keeping (receiving, processing, and issuing), and inventory maintenance, sanitation, and control. Course also includes a computer applications component.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in computer application system, 2 in personnel management, 1 in store-room operations (10/88).

AR-1405-0181

REPAIR PARTS TECHNICIAN SENIOR WARRANT OFFICER RESERVE COMPONENTS

Course Number: 8-10-C32-920C-RC.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 2 weeks (76 hours).

Exhibit Dates: 1/90–10/91.

Learning Outcomes: Upon completion of the course, the student will understand the basic functions of the logistics operations of material acquisition and control.

Instruction: Classroom lectures and some exercises to develop an awareness of the logistics functions of determining requirements, distribution, finance management, and data processing support.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in logistics management (10/88).

AR-1405-0183

SUBSISTENCE SUPPLY SPECIALIST

Course Number: 822-76X10.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 7 weeks (253 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to use prescribed methods of warehousing, including receiving, storing and issuing substance items. Additionally, the student will be able to maintain sanitation standards, and utilize preventive maintenance scenarios for materials and/or warehousing equipment.

Instruction: Methods of instruction include lectures by instructors and students, practical exercises by participants, written examinations, and a comprehensive test. Topics covered: warehouse sanitation, requisitioning of food and supplies, receiving, storing and shipping semiperishable subsistences, materials equipment handling, and preventive maintenance.

Credit Recommendation: In the vocational certificate category, 3 semester hours in material handling (10/88).

Related Occupations: 76X.

AR-1405-0184

PROPERTY ACCOUNTING TECHNICIAN WARRANT OFFICER ADVANCED

(Property Accounting Technician Senior Warrant Officer Reserve Component)

(Property Book Technician Senior Warrant Officer Training Reserve Component)

Course Number: 8-10-C32-920A-RC.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 2 weeks (69-71 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide technical leadership of a major/large scale property management function.

Instruction: Includes classroom instruction, demonstration, and practical exercises in basic data processing concepts, regulations, logistical concepts, and a computerized inventory control system.

Credit Recommendation: In the vocational certificate category, 1 semester hour in computerized record keeping and 1 in inventory control (5/96).

Related Occupations: 920A.

AR-1405-0185

PROPERTY ACCOUNTING TECHNICIAN WARRANT OFFICER BASIC

(Property Accounting Technician Quartermaster Warrant Officer Technical/Tactical Certification)

(Property Book Technician Quartermaster Warrant Officer Technical/Tactical Certification)

Course Number: 8B-920A.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 9 weeks (324-325 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will understand the principles of property management including accountability, audit trails, work flow, physical considerations such as safety, storage, and security; will understand the operational requirements of accounting for various types of property; will use a microcomputer-based property management/inventory control system; and will provide technical leadership of a small to mid-sized property management function. After 5/92, the course included materials management and wholesale logistics.

Instruction: Includes mostly classroom instruction on the principles of property management and the specific procedures of accounting for various types of property; and classroom instruction and practical hands-on exercises in the operations, transaction requirements, and capabilities of a property control system.

Credit Recommendation: In the vocational certificate category, 1 semester hour in computer record keeping (5/96); in the lower-division baccalaureate/associate degree category, 3 semester hours in inventory control (5/96).

Related Occupations: 920A.

AR-1405-0186

PROPERTY ACCOUNTING TECHNICIAN WARRANT OFFICER TECHNICAL/TACTICAL CERTIFICATION RESERVE

(Property Book Technician Warrant Officer Technical/Tactical Certification Reserve)

Course Number: *Version 1:* 8B-920A-RC. *Version 2:* 8B-920A-RC.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 2 weeks (76 hours). *Version 2:* 2 weeks (76 hours).

Exhibit Dates: *Version 1:* 7/92–8/92. *Version 2:* 1/90–6/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to provide technical leadership in a small to mid-size property management function. The principles of property management and the specific procedures of accounting for various types of property through the use of a computerized record keeping system are presented. *Version 2:* Upon completion of the course, the student will be able to provide technical leadership in a small to mid-sized property management function.

Instruction: *Version 1:* Classroom instruction, lecture, hands-on demonstration and use of the automated system emphasize concepts and processes. *Version 2:* Includes classroom instruction in the principles of property management and the specific procedures of accounting for various types of property, and classroom instruction, demonstration, and practical exercise in the use and operation of a computerized inventory control system.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in inventory control or records and information management or supply management (2/93). *Version 2:* In the vocational certificate category, 1 semester hour in computerized record keeping and 1 in inventory control (10/88).

Related Occupations: 920A.

AR-1405-0187

1. PROPERTY ACCOUNTING TECHNICIAN WARRANT OFFICER ADVANCED

(Property Accounting Technician Senior Warrant Officer)

(Property Book Technician Senior Warrant Officer Training)

2. PROPERTY ACCOUNTING TECHNICIAN SENIOR WARRANT OFFICER

(Property Book Technician Senior Warrant Officer Training)

Course Number: *Version 1:* 8-10-C32-920A. *Version 2:* 8-10-C32-920A.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 10 weeks (355-376 hours). *Version 2:* 11 weeks (394 hours).

Exhibit Dates: *Version 1:* 7/91–Present. *Version 2:* 1/90–6/91.

Learning Outcomes: *Version 1:* During the course, the student will develop/improve communications skills and leadership potential to assist in managing a major/large scale property control function. All phases of property management, inventory control, storage, receipt and issue of supplies and materials as well as general logistics planning for food services, bulk petroleum, and water supply are presented. *Version 2:* Upon completion of the course, the student will understand many general military subjects and will have sufficient knowledge in all phases of property management, regulations, procedures and computerized inventory control systems to manage a major/large scale property control function.

Instruction: *Version 1:* Lecture, demonstration, classroom presentations and considerable hands-on experience with an automated inventory control system are used to introduce the student to the principles of inventory and logistics management. *Version 2:* Includes classroom instruction, demonstration, and practical exercises in supervision, communication skills, general military topics, supply management, property management, inventory control, elementary accounting, and the use of a computerized property management system.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in business communications, 1 in principles of leadership or supervision, 3 in inventory management, inventory control or supplies management, and 2 in introduction to computers or records and information management (6/95). *Version 2:* In the vocational certificate category, 2 semester hours in computerized record keeping (10/88); in the lower-division baccalaureate/associate degree category, 2 semester hours in business communications, 1 in supply management, 1 in inventory control, and 1 in principles of supervision (10/88).

Related Occupations: 920A.

AR-1405-0188

1. SUPPLY SYSTEMS TECHNICIAN WARRANT OFFICER BASIC

2. SUPPLY SYSTEMS TECHNICIAN QUARTERMASTER WARRANT OFFICER TECHNICAL/TACTICAL CERTIFICATION

(Repair Parts Technician Quartermaster Warrant Officer Technical/Tactical Certification)

Course Number: *Version 1:* 8B-920B. *Version 2:* 8B-920B.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 9 weeks (321 hours). *Version 2:* 9 weeks (321-326 hours).

Exhibit Dates: *Version 1:* 4/94–Present. *Version 2:* 1/90–3/94.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will understand the processes of logistics support for the repair parts supplies function. *Version 2:* Upon completion of the course, the student will understand the processes of logistics support for the repair parts supplies function.

Instruction: *Version 1:* This version is pending evaluation. Classroom lectures and a significant amount of practical exercises designed to teach the student inventory processes of requisitioning, receiving, stocking, and issue of different types of supplies. Automated support of inventory systems is introduced. *Version 2:* Classroom lectures and a significant amount of practical exercises designed to teach the student inventory processes of requisitioning, receiving, stocking, and issue of different types of supplies. Automated support of inventory systems is introduced.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in inventory control warehousing and/or stock keeping, 1 in microcomputer applications (12/92).

Related Occupations: 920B.

AR-1405-0190

1. SUPPLY SYSTEMS TECHNICIAN WARRANT OFFICER BASIC, RESERVE

2. SUPPLY SYSTEMS TECHNICIAN QUARTERMASTER WARRANT OFFICER TECHNICAL/TACTICAL CERTIFICATION RESERVE

(Repair Parts Technician Quartermaster Warrant Officer Technical/Tactical Certification Reserve Component)

Course Number: *Version 1:* 8B-920B-RC. *Version 2:* 8B-920B-RC.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 2 weeks (76 hours). *Version 2:* 2 weeks (76 hours).

Exhibit Dates: *Version 1:* 1/93–Present. *Version 2:* 1/90–12/92.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will understand the basic functions of the logistics operations of materiel acquisition and control. *Version 2:* Upon completion of the course, the student will understand the basic functions of the logistics operations of materiel acquisition and control.

Instruction: *Version 1:* This version is pending evaluation. Classroom lectures and some exercises to develop an awareness of the

logistics functions of determining requirements, distribution support, finance management, and data processing support. *Version 2:* Classroom lectures and some exercises to develop an awareness of the logistics functions of determining requirements, distribution support, finance management, and data processing support.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in logistics management (12/92).

AR-1405-0191

ADVANCED LOGISTICS MANAGEMENT

Course Number: 8A-F37.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 4 weeks (144 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will understand the functions associated with procurement, storage, issue, and supply of all items necessary to maintain the operating level of an organization.

Instruction: Instruction is primarily a classroom activity through seminars and lectures to develop an understanding of the logistics process including developing usage requirements, contract principles, negotiation, contract administration, project management, depot operations, and automated systems support.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in logistics management (10/88).

AR-1405-0194

SUPPLY SUPPORT ACTIVITY (SSA) MANAGEMENT

Course Number: LOG 71.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 3 weeks (120 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to understand the basic functions of the supply support activity and storage operations; explain and implement a system of proper issuing, receiving, and shipping procedures; build and maintain a supply system (construct a data base, manage parameters, update data files, process supply status documents, follow-ups and cancellation requests, control inventory based on demand analysis and excess process); utilize and adjust a priority load list; identify and correct processing errors; understand the purpose and use of management reports and supply performance measures; analyze future supply systems and related concepts.

Instruction: Lectures and practical exercises using actual documentation and publications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hour in supply management (10/88).

AR-1405-0195

THE ARMY MAINTENANCE MANAGEMENT SYSTEM AND PRESCRIBED LOADING LIST (TAMMS and PLL)

Course Number: LOG 74.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 2 weeks (72 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to accurately prepare, maintain, and dispose of necessary maintenance and supply forms and records; maintain a publications library for unit equipment, supply, and maintenance operations; prepare, maintain, and dispose of historical records; use microfiche and records to identify and locate specific requirements for maintenance and supply functions; demonstrate a basic understanding of the prescribed load list policies and procedures.

Instruction: Lectures, demonstrations, and seminars in identifying, preparing, and stating the disposition of various maintenance and supply forms.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in clerical procedures (10/88).

AR-1405-0196

PERSONNEL INFORMATION SYSTEMS MANAGEMENT
SPECIALIST BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: *Version 1:* 500-75F30.
Version 2: 500-75F30.

Location: *Version 1:* Adjutant General School, Ft. Benjamin Harrison, IN. *Version 2:* Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 8 weeks (296 hours).
Version 2: 7 weeks (285 hours).

Exhibit Dates: *Version 1:* 10/91–Present.
Version 2: 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course the student will be able to identify and make proper corrections in a personnel information system and review data input. *Version 2:* Upon completion of the course the student will be able to identify and make proper corrections in a personnel information system and review data input.

Instruction: *Version 1:* Classroom instruction and practical experience in the use and operation of a microcomputer, and instruction and practical applications of data entry, processing, and data output. *Version 2:* Classroom instruction and practical experience in the use and operation of a microcomputer, and instruction and practical applications of data entry, processing, and data output.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in clerical procedures (12/91). *Version 2:* In the vocational certificate category, 1 semester hour in personnel recordkeeping (12/88); in the lower-division baccalaureate/associate degree category, 1 semester hour in computer applications and 1 in keyboard operations (12/88).

Related Occupations: 75F.

AR-1405-0197

LOGISTICS MANAGEMENT

Course Number: 600.

Location: Reserve Readiness Training Center, Ft. McCoy, WI.

Length: 2 weeks (100 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to administer and maintain systems for transportation,

delivery, and movement of supplies, including how to use documents for automation, facility management, publications, safety, and food service; how to prepare for mobilization using such systems as unit mobilization, force integration, inventory control, load planning, and hazardous cargo planning.

Instruction: Lectures and practical applications through quizzes, handouts, take-home materials, and a final examination.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in material or supply management (7/89); in the upper-division baccalaureate category, 2 semester hours in logistics management (7/89).

AR-1405-0198

UNIT MOBILIZATION PLANNERS

Course Number: 2000.

Location: Reserve Readiness Training Center, Ft. McCoy, WI.

Length: 2 weeks (76 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform unit mobilization planning for Army reserve units, including transportation operating agency actions and relationships, mobilization and development planning and execution, and installation/mobilization station activities during post-mobilization actions.

Instruction: Classroom lectures and discussions, workbook exercises, quizzes, and final examination; topics include fundamentals of Department of Defense and Department of the Army mobilization planning process; coordination of transportation and ADP systems' mobilization requirements; mobilization planning responsibilities in the areas of security, personnel, and administration, logistics, movement planning; completion of a detailed mobilization plan for a unit.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in logistics management (7/89).

AR-1405-0199

TRAINING MANAGEMENT

Course Number: 500.

Location: Reserve Readiness Training Center, Ft. McCoy, WI.

Length: 2 weeks (75 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify Army reserve training needs and priorities; develop short and long range training strategy; and plan integrated budget and administrative support to satisfy different mobilization scenarios.

Instruction: Methods of instruction are lectures, discussions, related projects, quizzes, final examinations. Topics covered: an overview of Army force structure; fundamentals of the Army Training Management System; developing short and long range prioritized training strategies; identifying training needs with requisite budget and administrative resources; mobilization levels and phases and their impact on training requirements and readiness.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in training management (7/89).

AR-1405-0200

RESERVE SUPPLY

Course Number: 1000.

Location: Reserve Readiness Training Center, Ft. McCoy, WI.

Length: 2 weeks (80 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to understand and apply organizational supply systems; and use control inventory and workflow principles as they relate to utilization of requisition procedures and forms, hand-receipt procedures, property disposition, physical security, and material condition status reports.

Instruction: Lectures, discussions, quizzes and final examination; full attendance and active participation in structured exercises, students must meet the academic standards.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in office procedures (7/89).

AR-1405-0201

MOVEMENT OFFICER

Course Number: 3400.

Location: Reserve Readiness Training Center, Ft. McCoy, WI.

Length: 2 weeks (80 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to complete and analyze a unit's load plan for hazardous cargo, including proper marking and documentation requirements; develop a convey plan and record its elements; identify the elements of and develop a rail movement plan for a given unit; develop an air movement plan including a load plan for a specific aircraft as well as air lift support elements, teams, and team responsibilities.

Instruction: Includes homework and series of practical exercises for each unit; lectures, discussions, quizzes, and final examinations are part of a total point requirement.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in logistics management (7/89).

AR-1405-0202

MEDICAL SUPPLY SPECIALIST RESERVE

(Medical Supply Specialist (Basic) Reserve
Component, Phase 2)

Course Number: 551-76J10-RC.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (82-90 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage the supply and equipment inventory system of a medical unit using the federal supply catalog, DOD Medical Catalog, microfiche viewer, DLA customer supply assistance booklet, and an automated system containing the Theater Army Medical Information System.

Instruction: This is a two phase course. Phase I is conducted as a correspondence course. Phase II is the resident portion. This second phase includes lecture, discussion, and practical exercises in the federal supply catalog, military standard requisitioning issue procedures, general administrative procedures, manual and automated property and inventory

control, stock accounting, and the Theater Army Medical Management Information System.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in materials management (supply management) (2/96).

AR-1405-0203

MEDICAL LOGISTICS NONCOMMISSIONED OFFICER (NCO)

Course Number: 551-F1

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 4 weeks (157 hours).

Exhibit Dates: 1/90–Present

Learning Outcomes: Upon completion of the course, the student will be able to interpret and implement policies and procedures using computer literacy in inventory management, financial management and Management Information System.

Instruction: Combination of conference and practical experiences covering computer literacy and management applications to finance, inventory and Management Information System.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in systems management (3/90).

AR-1405-0204

SUPPLY NONCOMMISSIONED OFFICER (NCO)

Course Number: SNCO 90.

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 1 week (54-56 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to address issues related to office and supply. Personnel issues related to subsistence, maintenance of equipment and security are addressed.

Instruction: Instruction strategies include lecture, discussion, structural exercise, and practical application exercises. Content includes key security, clothing control, maintenance request, meal accounting, subsistence, cash voucher and other supply type issues.

Credit Recommendation: In the vocational certificate category, 1 semester hour in office procedures (7/90).

AR-1405-0205

SENIOR LEVEL LOGISTICS

Course Number: SLL 90.

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 1-2 weeks (56 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise the accountability of medical, finance, environment, food service, and property resources.

Instruction: Instruction strategies include proctoral experience, structural exercises, lecture and discussion. Course content includes accountability management of medical, financial, maintenance, environment, food service and property.

Credit Recommendation: In the lower-division baccalaureate/associate degree cate-

gory, 1 semester hour in supply management (7/90).

AR-1405-0206

ORGANIZATION DEVELOPMENT FACILITATORS

Course Number: PFC ODDI

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 3 weeks (114 hours)

Exhibit Dates: 6/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to facilitate group discussion on issues critical to organizational group processes.

Instruction: Instruction includes lecture, discussion, practical exercises, student demonstrations, structural experiences, demonstrations, reports, and objective evaluation. Content covered includes learning theory, group concepts, group process, briefing/reporting skills including research, organization, delivery, and audio-visual aide, and units on dyadic communications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in oral group communication skills (7/90).

AR-1405-0208

SENIOR EXECUTIVE TRANSITION

Course Number: PEC-T-O-SET; PEC-T-O-SET91.

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 1-2 weeks (51-66 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify various human relations, self-analysis, and communication skills and to use those skills to achieve strategic organization objectives.

Instruction: Lecture, group discussion, and in-class exercises in areas of interpersonal communication, team building, situational leadership, values, assessment, and stress management.

Credit Recommendation: Credit is not recommended because there is no provision for formal student evaluation (7/90).

AR-1405-0209

ORGANIZATIONAL MAINTENANCE SHOP (OMS)/
UNIT TRAINING EQUIPMENT SITE (UTES)

Course Number: 90 OMS/UTES.

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 1 week (63 hours).

Exhibit Dates: 3/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to supervise the safety of hazardous materials, supervise security of materials in a unit accounting inventory, and maintain records of materials and content.

Instruction: Lecture, discussion and exercise are the primary instructional methods. The content includes management of an office on the issues of safety, hazardous material safety, inventory and accounting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in supply supervision (7/90).

AR-1405-0210

ORGANIZATIONAL MAINTENANCE SHOP (OMS)/
UNIT TRAINING EQUIPMENT SITE (UTES)
TOOL AND PARTS ATTENDANT

Course Number: 90 OMS/UTES.

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 1 week (49 hours).

Exhibit Dates: 3/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to supervise safety, hazardous materials, security and accounting of tools and parts.

Instruction: Instruction strategies include correspondence, securities, accounting, safety, records, inventory, hazardous materials.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (7/90).

AR-1405-0211

LOGISTICS EXECUTIVE DEVELOPMENT

Course Number: Version 1: 8A-F17. Version 2: 8A-F17.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: Version 1: 19-20 weeks (730 hours). Version 2: 19-20 weeks (708-755 hours).

Exhibit Dates: Version 1: 3/93–Present. Version 2: 1/90–2/93.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to serve in an executive position in logistics management. Version 2: Upon completion of the course, the student will be able to serve in an executive position in logistics management.

Instruction: Version 1: Lectures, discussions, case studies, computer-assisted simulation, practical exercises, guest lecturers, and applied research. Topics covered include development of strategies and logistics policies, acquisition management, materiel readiness, tactical logistics, historical importance of logistics, managerial communication, resource management (including inventory control systems), managerial economics, and macroeconomic principles, quantitative methods and analytical techniques, and current computer applications. Version 2: Lectures, discussions, case studies, computer-assisted simulation, practical exercises, guest lecturers, and applied research. Topics covered include development of strategy and logistics policies, acquisition management, materiel readiness, tactical logistics, historical importance of logistics, managerial communication, resource management, managerial economics, analytical techniques, and current computer applications.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in macroeconomic principles (8/95); in the upper-division baccalaureate category, 3 semester hours in principles of management, 3 in strategy and policy, 3 in procurement management, 6 in logistics management, and 3 in quantitative analysis (8/95); in the graduate degree category, 3 semester hours in managerial economics, 3 in systems management, and 3 in management science (8/95). Version 2: In the upper-division baccalaureate category, 3 semester hours in general management, 2 in managerial economics, 1 in strategic management, 3 in procurement management, 6 in logistics management, 3 in quan-

titative analysis (10/91); in the graduate degree category, 3 semester hours in managerial economics, 6 in management science (10/91).

AR-1405-0212

LOGISTICS EXECUTIVE DEVELOPMENT BY
CORRESPONDENCE

Course Number: *Version 1:* 8A-F17. *Version 2:* 8A-F17.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: *Version 1:* Maximum, 52 weeks. *Version 2:* Maximum, 52 weeks.

Exhibit Dates: *Version 1:* 3/93–Present. *Version 2:* 1/90–2/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to serve in an executive position in logistics management. *Version 2:* Upon completion of the course, the student will be able to serve in an executive position in logistics management.

Instruction: *Version 1:* This is a correspondence course. Topics covered include development of strategies and logistics policies, acquisition management, materiel readiness, tactical logistics, historical importance of logistics, managerial communication, resource management (including inventory control systems), managerial economics, and macroeconomic principles, quantitative methods and analytical techniques, and current computer applications. *Version 2:* This is a correspondence course. Topics covered include development of strategy and logistics policies, acquisition management, materiel readiness, tactical logistics, historical importance of logistics, managerial communication, resource management, managerial economics, analytical techniques, and current computer applications.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in macroeconomic principles (8/95); in the upper-division baccalaureate category, 3 semester hours principles of management, 3 in strategy and policy, 3 in procurement management, 6 in logistics management, and 3 in quantitative analysis (8/95); in the graduate degree category, 3 semester hours in managerial economics, 3 in systems management, and 3 in management science (8/95). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in general management, 2 in managerial economics, 1 in strategic management, 3 in procurement management, 6 in logistics management, 3 in quantitative analysis (6/91); in the graduate degree category, 3 semester hours in managerial economics, 6 in management science (6/91).

AR-1405-0213

ASSOCIATE LOGISTICS EXECUTIVE DEVELOPMENT
RESERVE COMPONENT

Course Number: *Version 1:* 8A-F19 (comprising ALMC-AL, ALMC-AC, ALMC-AD, ALMC-AE, ALMC-AM), 8A-F19. *Version 2:* 8A-F19.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: *Version 1:* 10 weeks (360 hours). *Version 2:* 10 weeks (365 hours).

Exhibit Dates: *Version 1:* 3/93–Present. *Version 2:* 1/90–2/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to

assume executive responsibilities in logistics management. *Version 2:* Upon completion of the course, the student will be able to assume executive responsibilities in logistics management.

Instruction: *Version 1:* Lectures, discussion, exercises, computer-assisted simulation, and applied research in organizational, financial, and personnel management in logistics; acquisition management; distribution maintenance (including facilities, equipment, and transportation); materiel management (including inventory control systems); managerial economics, statistics, and operations research; and logistics support concepts. The course is offered as resident, correspondence, or a combination of both delivery systems. Proctored final examinations are required for all delivery systems. This course consists of five phases all of which must be completed before credit is granted. The phases are Combat Logistics Part 1 (ALMC-AL), Acquisition Process (ALMC-AC), Materiel Readiness (ALMC-AD), Decision Sciences (ALMC-AE), and Combat Logistics Part 2 (ALMC-AM). *Version 2:* Lectures, discussion, exercises, computer-assisted simulation, and applied research are the delivery modes. Topics covered include organizational, financial, and personnel management in logistics; acquisition management; distribution maintenance, and materiel management; managerial economics, statistics, and operations research; and logistics support concepts. The course is offered as resident, correspondence, or a combination of both delivery systems. Proctored final examinations are required regardless of delivery systems.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in computer applications logistics management (8/95); in the upper-division baccalaureate category, 3 semester hours in economic analysis for decision making, 3 in principles of management, 3 in logistics management, 3 in materiel management, and 2 in inventory control principles (8/95); in the graduate degree category, 3 semester hours in advanced logistics management (8/95). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in economic principles and decision making, 3 in logistics management, 3 in materiel management, 3 in principles of management (6/91); in the graduate degree category, 3 semester hours in advanced logistics management (6/91).

AR-1405-0214

1. ASSOCIATE LOGISTICS EXECUTIVE DEVELOPMENT BY CORRESPONDENCE
2. ASSOCIATE LOGISTICS EXECUTIVE DEVELOPMENT RESERVE COMPONENT BY CORRESPONDENCE

Course Number: *Version 1:* 8A-F19. *Version 2:* 8A-F19.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: *Version 1:* Maximum, 208 weeks (360 hours). *Version 2:* Maximum, 52 weeks.

Exhibit Dates: *Version 1:* 3/93–Present. *Version 2:* 1/90–2/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to assume executive responsibilities in logistics management. *Version 2:* Upon completion of the course, the student will be able to assume

executive responsibilities in logistics management.

Instruction: *Version 1:* Topics covered include organizational, financial, and personnel management in logistics; acquisition management; distribution maintenance (including facilities, equipment, and transportation); materiel management (including inventory control systems); managerial economics, statistics, and operations research; and logistics support concepts. The course is offered as resident, correspondence, or a combination of both delivery systems. Proctored final examinations are required for all systems. *Version 2:* This is a correspondence course. Topics covered include organizational, financial, and personnel management in logistics; acquisition management; distribution maintenance, and materiel management; managerial economics, statistics, and operations research; and logistics support concepts. The course is offered as resident, correspondence, or a combination of both delivery systems. Proctored final examinations are required.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in economic analysis for decision making, 3 in principles of management, 3 in logistics management, 3 in materiel management, and 2 in inventory control principles. Credit to be awarded upon completion of entire program (8/95); in the graduate degree category, 3 semester hours in advanced logistics management. Credit to be awarded upon completion of entire program (8/95). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in economic principles and decision making, 3 in logistics management, 3 in materiel management, 3 in principles of management (6/91); in the graduate degree category, 3 semester hours in advanced logistics management (6/91).

AR-1405-0215

DEFENSE INVENTORY MANAGEMENT

Course Number: *Version 1:* 8B-F11. *Version 2:* 8B-F11.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: *Version 1:* 3-4 weeks (150 hours). *Version 2:* 3-4 weeks (149-150 hours).

Exhibit Dates: *Version 1:* 10/92–Present. *Version 2:* 1/90–9/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to make sound inventory management decisions based on logical analysis of existing data and the application of quantitative techniques to the material management process. *Version 2:* Upon completion of the course, the student will be able to make sound inventory management decisions based on logical analysis of existing data and the application of quantitative techniques to the material management process.

Instruction: *Version 1:* Lecture-conferences and practical exercises are the presentation modes. Topics include inventory management practices in the armed services, the entire life cycle of materiel, forecasting techniques, financial management, and various mathematical and scientific tools for completing requirements computation and inventory control. *Version 2:* Lecture-conferences and practical exercises are the presentation modes. Topics include inventory management practices in the armed ser-

ances, the entire life cycle of materiel, forecasting techniques, financial management, and various mathematical and scientific tools for completing requirements computation and inventory control.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in inventory management or inventory control (8/95). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in materiel management (10/91).

AR-1405-0216

DEFENSE REUTILIZATION AND MARKETING OPERATIONS BASIC

Course Number: *Version 1:* 8G-F1. *Version 2:* 8G-F1.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: *Version 1:* 3 weeks (81 hours). *Version 2:* 3 weeks (112 hours).

Exhibit Dates: *Version 1:* 7/95–Present. *Version 2:* 1/90–6/95.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to interface with appropriate organizational elements of the reutilization and marketing service and other governmental agencies and the public; promote the programs and perform duties associated with property accounting, reutilization, transfer, and donation of property; carry out sales functions in order to optimize the monetary return to the government, including sales planning, promotion, item description writing and contracting functions of sales; and process property requiring special handling (including hazardous property processing and the demilitarization program) into and through the reutilization and marketing cycle. *Version 2:* Upon completion of the course, the student will be able to interface with appropriate organizational elements of the reutilization and marketing service and other governmental agencies and the public; promote the programs and perform duties associated with reutilization, transfer, and donation of property; carry out sales functions in order to optimize the monetary return to the government, including sales planning, promotion, item description writing and contracting functions of sales; and process property requiring special handling into and through the reutilization and marketing cycle.

Instruction: *Version 1:* Instructional methods include lecture-conferences, practical exercises, workshops, and guest speakers. Topics covered include basic disposal operations including objectives, policies and procedures involved in the reutilization, donation, sale, abandonment, or destruction, property accounting, demilitarization of DOD excess and surplus property, and property accounting. *Version 2:* Instructional methods include workshops, practical exercises and lecture-conferences using guest speakers as well as faculty. Topics covered include basic disposal operations including objectives, policies and procedures involved in the reutilization, donation, sale, abandonment, or destruction and demolition of DOD excess and surplus personal property.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in marketing distribution systems (8/95). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in applied marketing (6/91).

AR-1405-0217

DEFENSE REUTILIZATION AND MARKETING OPERATIONS BASIC BY CORRESPONDENCE

Course Number: 8G-F1.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: Maximum of .52 weeks.

Exhibit Dates: 1/90–4/93.

Learning Outcomes: Upon completion of the course, the student will be able to interface with appropriate organizational elements of reutilization and marketing service and other governmental agencies and the public; promote the programs and perform duties associated with reutilization, transfer, and donation of property; carry out sales functions in order to optimize the monetary return to the government, including sales planning, promotion, item description writing and contracting functions of sales; and process property requiring special handling into and through the reutilization and marketing cycle.

Instruction: This is a correspondence course with a proctored exam. Topics covered include basic disposal operations including objectives, policies and procedures involved in the reutilization, donation, sale, abandonment, or destruction and demolition of DOD excess and surplus personal property.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in applied marketing (6/91).

AR-1405-0218

COMMODITY COMMAND STANDARD SYSTEM PHYSICAL INVENTORY MANAGEMENT

Course Number: ALMC-6C.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: 1–2 weeks (50 hours).

Exhibit Dates: 1/90–10/92.

Learning Outcomes: Upon completion of the course, the student will be able to identify and prepare inventory application input documents, analyze and interpret inventory application output products, and to describe the major process and procedures of inventory applications.

Instruction: Programmed instruction and practical exercises covering requesting/control procedures, materiel release denials, zero balance flasher, and quality control. Reinforcement of knowledge gained in the location record audit/match is depicted in an audio tape case; video tape lectures are utilized to introduce each block of instruction; initial, intermediate, and final surveys are used to examine the students throughout the course.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in inventory management (6/91).

AR-1405-0219

STANDARD DEPOT SYSTEM DEPOT PHYSICAL INVENTORY MANAGEMENT

Course Number: ALMC-6D.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: 60 hours.

Exhibit Dates: 1/90–10/91.

Learning Outcomes: Upon completion of the course, the student will be able to manage

an overall physical inventory management system, correct discrepancies between the depot records and material at the location, and coordinate the functional procedures for performing quarterly and annual audits.

Instruction: The course is presented through the use of multi-media individualized instructional techniques. Topics include physical inventory, material release denials, quality control checks, and preparation of reports.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in inventory management (6/91).

AR-1405-0220

STANDARD DEPOT SYSTEM DEPOT MAINTENANCE WORKLOADING

Course Number: ALMC-7X.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: 80 hours.

Exhibit Dates: 1/90–10/91.

Learning Outcomes: Upon completion of the course, the student will be able to describe the material requirements determination process; describe the interlinking process used to accomplish depot maintenance workloading; prepare input to individual job responsibilities applicable to work areas; identify output products from maintenance workloading including frequencies, data elements, and managerial control information.

Instruction: Course presented through multi-media individualized instruction using lesson books, reference books and protected exercises. Course content covers maintenance quality function and managerial responsibilities for material requirements determination and maintenance workloading. Input formats and output products are also covered in some detail.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in material management (6/91).

AR-1405-0221

PROVISIONING (Army Provisioning Process)

Course Number: *Version 1:* LOG 205; ALMC-AH. *Version 2:* ALMC-AH; LOG 303.

Location: *Version 1:* Army Logistics Management College, Satellite Education Program, Ft. Lee, VA; Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA. *Version 2:* Army Logistics Management College, Satellite Education Network; Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: *Version 1:* 2 weeks (75 hours). *Version 2:* 2 weeks (72–74 hours).

Exhibit Dates: *Version 1:* 1/93–Present. *Version 2:* 1/90–12/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to recognize and understand the specific critical activities of the functional areas involved in the provisioning process, and will be familiar with the techniques used to select, code, catalogue, and compute requirements, and to distribute support items. *Version 2:* Upon completion of the course, the student will be able to recognize

and understand the specific critical activities of the functional areas involved in the provisioning process, and will be familiar with the techniques used to select, code, catalogue, and compute requirements, and to distribute support items.

Instruction: *Version 1:* Instructional methods used are lecture-conferences, practical exercises, workshops, and case studies. Topics include functional interrelationships and planning in the provisioning process (procurement, maintenance, and supply functions), provisioning management controls and techniques, and logistics support engineering and the provisioning process. *Version 2:* Lecture-conferences, practical exercises, workshops and cases include topics such as planning for functional interrelationships in the provisioning process (procurement, maintenance, and supply functions), provisioning management controls and techniques, and logistics support engineering and the provisioning process.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management (8/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management (6/91).

AR-1405-0222

LOGISTICS ASSISTANCE PROGRAM OPERATIONS
(Logistics Assistance Program Workshop I)

Course Number: ALMC-LV.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: 2 weeks (76-77 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to undertake duties as a logistics assistance representative with a full understanding of the duties and responsibilities of the position.

Instruction: Instructional methods include workshops, lecture-conferences and practical exercises on the defense structure, personal requirements for the job, administration, career management and the trade. There are requirements for subject area mastery.

Credit Recommendation: Credit is not recommended because of the limited, specialized content of the course (6/91).

AR-1405-0223

LOGISTICS ASSISTANCE PROGRAM SUPPLY SUPPORT

Course Number: ALMC-LW.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: 2 weeks.

Exhibit Dates: 7/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to share information and experiences that will enhance Army readiness.

Instruction: The combination of lecture-conferences, guest lecturers, and workshops will be used. The course stresses the pooling of experiences related to the logistics assistance program. Specific topics related to this field are introduced to stimulate thought and discussion.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/91).

AR-1405-0224

MAINTENANCE PROVISIONING PROCEDURES

Course Number: ALMC-MP.

Location: On-site, Material Command Major, Subordinate Commands, US; Army Logistics Management College, Ft. Lee, VA.

Length: 2-3 weeks (77 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to use contract data requirement documents for various acquisition strategies; identify maintenance significant support items; validate and assign failure factors/maintenance replacement rates; develop and validate maintenance allocation charts; and determine maintenance codes.

Instruction: Instruction includes lecture and exercises on topics including system acquisition, documentation, and supportability; data generation description and acquisition; maintenance allocation chart development; maintenance coding; and maintenance provisioning review.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in material management (6/91).

AR-1405-0225

NEW EQUIPMENT TRAINING MANAGEMENT

Course Number: ALMC-NE.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: 2 weeks (73 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to describe the Army modernization process and its impact on the Army; identify and integrate documentation for new equipment training throughout the acquisition process; show relationships among the Army modernization process, Integrated Logistic Support, and new equipment training.

Instruction: Methods of instruction include lecture-conference, practical exercise and guest speaker. Topics covered are an introduction to Army modernization training process; new equipment training, planning, development, and evaluation; the life cycle system management model, and the Army modernization training automation system.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/91).

AR-1405-0226

1. MATERIEL ACQUISITION MANAGEMENT, PHASES 1, 2, 3, 4, FOR RESERVE COMPONENTS
2. MATERIEL ACQUISITION MANAGEMENT FOR RESERVE COMPONENTS, PHASES 2 AND 4

Course Number: *Version 1:* ALMC-37; ALMC-MM; ALMC-38; ALMC-MN. *Version 2:* ALMC-31-0238.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: *Version 1:* Phase 2, 2 weeks (69 hours); Phase 4, 2 weeks (67 hours). *Version 2:* 4 weeks (156 hours).

Exhibit Dates: *Version 1:* 8/93–Present. *Version 2:* 1/90–7/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to identify and describe the environment in which material is conceived, developed, acquired, and operated; perform functions of staff operating and participating in the research and development process; evaluate and apply the mecha-

nisms and disciplines of systems engineering and integrated logistics support; utilize the managerial tools pertaining to financial management and cost controls; manage the transition of material from development to production and practice the basic functions of production management; apply the principles of contract formulation, negotiation, and administration; prepare, review, and evaluate requests for proposals; and compare and contrast risk analysis and decision risk analysis. Phases 1 and 3 are accomplished through correspondence, with proctored examinations required to progress. *Version 2:* Upon completion of the course, the student will be able to identify and describe the environment in which material is conceived, developed, acquired, and operated; perform functions of staff operating and participating in the research and development process; evaluate and apply the mechanisms and disciplines of systems engineering and integrated logistics support; utilize the managerial tools pertaining to financial management and cost controls; manage the transition of material from development to production and practice the basic functions of production management; and apply the principles of contract formulation, negotiation, and administration.

Instruction: *Version 1:* Completion of the four phases encompasses lecture-instruction and its ancillary forms of classroom techniques for phases 2 and 4. Phase 1 and 3 are by correspondence and together a series of topic are covered including financial and cost management, acquisition concepts and policies, research and development, testing and evaluation, integrated logistics support, force modernization, and contract management. *Version 2:* Lecture-conferences, guest speaker and correspondence in materials acquisition management, including financial and cost management, acquisition concepts and policies, research and development, testing and evaluation, integrated logistics support, force modernization, and contract management.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 4 semester hours in contract management (8/95); in the graduate degree category, 4 semester hours in contract management for this course; see above cited exhibits that comprise this course. Credit is to be granted in either the upper-division or in the graduate category, but not in both. All four phases must be completed before credit is to be granted (8/95). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in logistics management (6/91); in the graduate degree category, 3 semester hours in contract management (6/91).

AR-1405-0227

QUICKLOOK 2 MAINTENANCE TRAINING

Course Number: 102-F92.

Location: Intelligence School, Ft. Devens, MA.

Length: 12 weeks (359 hours).

Exhibit Dates: 1/90–3/94.

Learning Outcomes: Upon completion of this course, the student will be able to manage maintenance and repair operations for tactical equipment, determine repairs necessary, and secure needed part replacements.

Instruction: Lectures, demonstrations and practical exercises in combat logistics, quality management, supply operations, maintenance and field operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial management or in maintenance technology (6/91).

Related Occupations: 33R

AR-1405-0229

AMMUNITION STOCK CONTROL AND ACCOUNTING
SPECIALIST RESERVE

Course Number: 093-55R10-RC

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 2 weeks (92-122 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course, the student will be able to identify ammunition, complete inventory procedure and shipping documents, and process receipts, transactions, and conduct reconciliation procedures.

Instruction: Topics include learning the standard Army ammunition systems operations, both automated methods and manual.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (8/91).

AR-1405-0230

COMMODITY COMMAND STANDARD SYSTEM
PHYSICAL INVENTORY MANAGEMENT BY
CORRESPONDENCE

Course Number: ALMC-6C.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: Maximum, 52 weeks.

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify and prepare inventory application input documents, analyze and interpret inventory application output products, and describe the major process and procedures of inventory applications.

Instruction: This is a correspondence course with topics covering requesting/control procedures, materiel release denials, zero balance flasher, and quality control. Review of knowledge gained in the location record audit/match is required. Initial, intermediate, and final surveys are used to examine students throughout the course.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in inventory management (6/91).

AR-1405-0231

1. COMMODITY COMMAND STANDARD SYSTEM
FUNCTIONAL BY CORRESPONDENCE
2. COMMODITY COMMAND STANDARD SYSTEM
(CCSS) FUNCTIONAL BY
CORRESPONDENCE

Course Number: Version 1: ALMC-3L.
Version 2: ALM-56-M115; ALMC-3L.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: Version 1: Maximum, 52 weeks.
Version 2: Maximum, 52 weeks.

Exhibit Dates: Version 1: 10/92-Present.
Version 2: 1/90-9/92.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to utilize data processing and total logistics supporting systems. Version 2: Upon completion

of the course, the student will enhance the ability of those working at the Army Materiel Development and Readiness Command to perform their duties more efficiently and effectively through the utilization of a particular automated system.

Instruction: Version 1: This is a correspondence course. Topics include logistics management concepts, computerized data systems, and how the above interface with the initial provisions and replenishment cycles. Version 2: This is a correspondence course. Topics include logistics management concepts, computerized data systems, and how the above interface with the initial provisions and replenishment cycles.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 2 semester hours in logistics management (8/95). Version 2: In the upper-division baccalaureate category, 2 semester hours in automated systems in logistics management (8/90).

AR-1405-0232

UTILITIES OPERATION AND MAINTENANCE
TECHNICIAN

Course Number: 4-5-C32-210A.

Location: Engineer Housing Support Center, Ft. Belvoir, VA; Engineer School, Ft. Leonard Wood, MO.

Length: 8 weeks (311 hours).

Exhibit Dates: 1/91-Present.

Learning Outcomes: Upon completion of the course the student will be able to manage personnel and the operation of utilities; and plan, program and budget facilities operations.

Instruction: Lectures and practical exercises in job management to include staff studies, schedule preparation, employee relations, and report preparation; planning, operation, and maintenance in the installation of utility systems; quality control in construction projects; facility engineering to include real property, fire protection, and energy conservation; and planning, programming, and budgeting for the operation of a utility facility.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in facility management and 1 in personnel supervision (1/93).

AR-1405-0233

UNIT SUPPLY SPECIALIST BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: Version 1: 552-92Y30;
552-76Y30. Version 2: 552-76Y30.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: Version 1: 9-10 weeks (338-367 hours). Version 2: 8 weeks (243 hours).

Exhibit Dates: Version 1: 7/91-Present.
Version 2: 1/90-6/91.

Learning Outcomes: Version 1: Upon completion of the course the student will be able to perform as a supervisor of a supply organization, and will be able to teach, evaluate, and counsel junior leaders and also conduct collective training. Version 2: Upon completion of the course the student will be able to perform as a supervisor of a supply organization, and will be able to teach, evaluate, and counsel junior leaders and also conduct collective training.

Instruction: Version 1: Conferences, practical exercises, and seminars to review the nature of supply organizations and the role of the supply supervisor in records management, using

manual and automated systems and procedures. There is emphasis on inventory management, preventive maintenance, order control, accounting, and distribution control of large quantities among diversified inventories. Version 2: Conferences, practical exercises, and seminars to review the nature of supply organizations and the role of the supply supervisor in records management, using manual and automated systems and procedures. There is emphasis on inventory management, preventive maintenance, order control, accounting, and distribution control of large quantities among diversified inventories.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in records management and 3 in inventory management. See AR-1406-0090 for common core credit (5/96). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in records management and 3 in inventory management (2/93).

Related Occupations: 76Y; 92Y.

AR-1405-0234

LOGISTICS OFFICER (S4)

Course Number: 8A-F33.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 4-5 weeks (154 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will understand the principles of logistics from a management perspective. Topics covered include forms and documentation processing; setting priorities for supply; preparing logistics estimates, plans, and orders; identifying contingency procedures; and using an automated system to support logistics functions.

Instruction: Classroom instruction and examinations test the student's knowledge and application of skills for planning, coordinating, and controlling a logistics supply operation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in logistics management or physical distribution management (2/93).

AR-1405-0235

UNIT SUPPLY SPECIALIST

Course Number: 552-92Y10; 552-76Y10.

Location: Training Center, Ft. Jackson, SC; Quartermaster Center and School, Ft. Lee, VA.

Length: 7-8 weeks (217-288 hours).

Exhibit Dates: 10/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform unit and organization supply procedures and organizational maintenance on small arms.

Instruction: Lectures and practical exercises in supply operations and the maintenance of small arms. Course includes basic mathematics, typewriting, use of technical publications, unit and organization supply procedures, and organizational maintenance of small arms.

Credit Recommendation: In the vocational certificate category, 3 semester hours in records maintenance, 3 in supply supervision and maintenance (5/96).

Related Occupations: 76Y.

AR-1405-0236

QUARTERMASTER OFFICER BASIC

Course Number: *Version 1:* 8-10-C20-92A.
Version 2: 8-10-C20-92A.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 14-15 weeks (527 hours). *Version 2:* 17 weeks (660 hours).

Exhibit Dates: *Version 1:* 1/96–Present.
Version 2: 10/92–12/95.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will have developed the ability to manage a unit responsible for providing support in the areas of supply management and operations, petroleum and water operations, mortuary services, airborne and field services, and subsistence and food services. *Version 2:* Before 10/92 see AR-1405-0069. Upon completion of the course, the student will have developed the ability to manage a unit responsible for providing support in the areas of supply management and operations, petroleum and water operations, mortuary services, airborne and field services, and subsistence and food services.

Instruction: *Version 1:* This version is pending evaluation. Instruction is via classroom lectures, presentations, demonstrations, practice, and examinations. Topics covered include professional development, unit organization and leadership, automatic data processing support and unit logistics. *Version 2:* Instruction is via classroom lectures, presentations, demonstrations, practice, and examinations. Topics covered include professional development, unit organization and leadership, automatic data processing support and unit logistics.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to management, 2 in supply management (2/93); in the upper-division baccalaureate category, 2 semester hours in personnel supervision (2/93).

AR-1405-0237

COMBINED LOGISTICS OFFICER ADVANCED
QUARTERMASTER BRANCH SPECIFIC TRACK

Course Number: 8-10-C22 (LOG).

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 5 weeks (196 hours).

Exhibit Dates: 8/92–Present.

Learning Outcomes: Upon completion of the course, the student will have a working knowledge of logistics management and the functions of inventory control. Student will be capable of supervising a unit that issues, receives and stores supplies. Automated systems skills will be developed and the principles of ADP systems in general will be presented. A familiarity with common terms will be assured. Actual use of the automated system is a major topic of study.

Instruction: Classroom instruction and hands-on projects utilizing an automated system to support inventory control and logistics management is included. Skills are developed in servicing food service, supply, water and petroleum as examples of logistics functions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in inventory control or inventory management and 3 in computer literacy, computers and computing or introduction to computers (2/93).

AR-1405-0238

1. AUTOMATED LOGISTICAL SPECIALIST
2. AUTOMATED LOGISTICS SPECIALIST

Course Number: *Version 1:* 551-92A10.
Version 2: 551-92A10.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 11 weeks (391 hours).
Version 2: 13 weeks (467–474 hours).

Exhibit Dates: *Version 1:* 7/95–Present.
Version 2: 5/92–6/95.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will have become familiar with manual and automated processors for controlling inventory and methods of receiving, storing and protection supplies and equipment. *Version 2:* Upon completion of the course, the student will have become familiar with manual and automated processors for controlling inventory and methods of receiving, storing and protection supplies and equipment.

Instruction: *Version 1:* This version is pending evaluation. Lecture, class presentations, demonstration, practice, and examination to develop understanding and practical experience in using manual and automated processes to support inventory receipt, issue, reconciliation, etc. Materials handling, packing, movement and storage is included to thoroughly familiarize the student with these processes. *Version 2:* Lecture, class presentations, demonstration, practice, and examination to develop understanding and practical experience in using manual and automated processes to support inventory receipt, issue, reconciliation, etc. Materials handling, packing, movement and storage is included to thoroughly familiarize the student with these processes.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to material handling, 2 in record keeping or clerical procedures, and 2 in introduction to computers (2/93).

Related Occupations: 92A.

AR-1405-0239

1. AUTOMATED LOGISTICAL SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)
2. AUTOMATED LOGISTICS MANAGEMENT
SPECIALIST BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: *Version 1:* 551-92A30.
Version 2: 551-92A30.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 10-11 weeks (388 hours). *Version 2:* 9 weeks (325 hours).

Exhibit Dates: *Version 1:* 10/95–Present.
Version 2: 1/93–9/95.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to lead small groups in performing inventory and issue tasks utilizing an automated system. *Version 2:* Upon completion of the course, the student will be able to lead small groups in performing inventory and issue tasks utilizing an automated system.

Instruction: *Version 1:* This version is pending evaluation. Lectures, class presentations, demonstrations, practice and examinations to develop improved skills, understanding

and knowledge in the areas of materials handling, warehouse layout and planning and issue and receipt processing are presented. *Version 2:* Lectures, class presentations, demonstrations, practice and examinations to develop improved skills, understanding and knowledge in the areas of materials handling, warehouse layout and planning and issue and receipt processing are presented.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in advanced materials handling and 3 in records and information management. See AR-1406-0090 for common core credit (2/93).

Related Occupations: 92A.

AR-1405-0240

1. AUTOMATED LOGISTICAL SPECIALIST
ADVANCED NONCOMMISSIONED OFFICER
(NCO)
2. AUTOMATED LOGISTICS MANAGEMENT
ADVANCED NONCOMMISSIONED OFFICER

Course Number: *Version 1:* 551-92A40.
Version 2: 551-92A40.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 12 weeks (37 hours).
Version 2: 9-10 weeks (351 hours).

Exhibit Dates: *Version 1:* 10/95–Present.
Version 2: 5/92–9/95.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to supervise and manage a group utilizing an automated supply/inventory system. Students will develop ability to generate teamwork in a group and to manage the group assigned to inventory control, warehouse/storage processes, material and supplies movement, and security and protection. *Version 2:* Upon completion of the course, the student will be able to supervise and manage a group utilizing an automated supply/inventory system. Students will develop ability to generate teamwork in a group and to manage the group assigned to inventory control, warehouse/storage processes, material and supplies movement, and security and protection.

Instruction: *Version 1:* This version is pending evaluation. Lecture, class presentation, demonstration, practice, and examination to build skills. *Version 2:* Lecture, class presentation, demonstration, practice, and examination to build skills.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision or introduction to supervision. See AR-1404-0035 for common core credit (2/93); in the upper-division baccalaureate category, 3 semester hours in logistics management (2/93).

Related Occupations: 92A; 92A.

AR-1405-0241

MEDICAL SUPPLY SPECIALIST

Course Number: 551-76J10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 5-6 weeks (216 hours).

Exhibit Dates: 11/93–Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage the medical materiel requirements of a health

care facility, administer medical equipment, establish and monitor quality control.

Instruction: Covers medical supply publications, property control, and stock accounting procedures. Methodology includes lectures and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in materials management (1/96).

AR-1405-0243

DEFENSE REUTILIZATION AND MARKETING
PROPERTY ACCOUNTING

Course Number: ALMC-1C

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: 2 weeks (72-73 hours).

Exhibit Dates: 8/93-Present.

Learning Outcomes: Before 8/93 see AR-1405-0116. Upon completion of the course, the student will be able to input and maintain accurate computerized property records and use management output data for management control and accountability maintenance of property at the defense reutilization and marketing office. Interpretation and analysis of management data is a second objective of the course and accomplished through group and individual workshops.

Instruction: Instructional methods include the use of lecture-conferences, practical exercises, study group workshops, guest speakers, and computer based practicums. Topics include automated record keeping procedures related to property disposal, transfers, sales, adjustments, reversals; and interpretation and analysis of management data.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer operations and 1 in materiel management accounting and control (8/95).

AR-1405-0244

COMMODITY COMMAND STANDARD SYSTEM
FUNCTIONAL

Course Number: ALMC-3L

Location: Army Logistics Management College, Ft. Lee, VA.

Length: 1-2 weeks (73 hours).

Exhibit Dates: 9/92-Present.

Learning Outcomes: Before 9/92 see AR-1405-0118. Upon completion of the course, the students will be able to work effectively performing their duties through utilization of the data processing and total logistics supporting systems.

Instruction: Methods of instruction include lecture, work group exercises, and computer simulations. Topics include logistics management concepts, and how computerized data systems interface with the initial provisions and replenishment cycles.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in logistics management (8/95).

AR-1406-0011

PERSONNEL RECORDS SPECIALIST

Course Number: 500-75D10.

Location: Training Center, Ft. Jackson, SC.

Length: 7 weeks (211-244 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train individuals to maintain personnel records.

Instruction: Conferences and practical exercises in personnel records maintenance through such source documents as court-martial orders efficiency reports, suspension of favorable personnel actions, requested and completed personnel actions, in- and out-processing of personnel records, and the initiation, use, and updating of standard installation/division personnel system (SIDPERS) documentation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in typewriting, 3 in clerical bookkeeping, and 2 in office procedures (8/88).

Related Occupations: 09B; 09E; 75B; 75D.

AR-1406-0020

RETENTION NONCOMMISSIONED OFFICER (NCO)

Course Number: 501-00R30; 501-79D30.

Location: Adjutant General School, Ft. Benjamin Harrison, IN; Institute for Administration, Ft. Benjamin Harrison, IN.

Length: 6-9 weeks (223-317 hours).

Exhibit Dates: 1/90-9/90.

Objectives: To train enlisted personnel to manage a recruiting and reenlistment office.

Instruction: Lectures and practical exercises in the management of a recruiting and reenlistment office. Course includes principles and techniques of recruiting and reenlistment, and effective speaking. Conference instruction and practical exercises in service computation, bonuses, interviewing and counseling techniques and maintenance of enlistment program.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/91).

Related Occupations: 00E.

AR-1406-0026

PERSONNEL ACTIONS SPECIALIST

Course Number: 500-75E10 (ST); 500-75E10.

Location: Training Center, Ft. Jackson, SC.

Length: 7-8 weeks (277 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train students to prepare, process, and review records relating to personnel matters.

Instruction: Instruction and practical exercises in the preparation, processing and review of records pertaining to personnel actions along with field training experiences.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in typing and 3 in clerical recordkeeping (8/88).

Related Occupations: 09B; 09E; 75B; 75E.

AR-1406-0032

RECRUITING STATION COMMANDERS

Course Number: 501-F2.

Location: Institute for Administration, Ft. Benjamin Harrison, IN.

Length: 2 weeks (76 hours).

Exhibit Dates: 1/90-9/90.

Objectives: To provide selected enlisted personnel with the skills to perform as supervisor of a recruiting station.

Instruction: Conference and practical exercises in responsibility, leadership, management,

personnel training, sales promotion and administration of recruiting stations.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in principles of supervision (3/85).

Related Occupations: 00E.

AR-1406-0034

LEADERSHIP AND MANAGEMENT DEVELOPMENT
TRAINERS COURSE

Course Number: None.

Location: Selected Army locations; Organizational Effectiveness Center and School, Ft. Ord, CA.

Length: 4 weeks (148-149 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide instruction and experience in training to officer and senior enlisted personnel selected to instruct Leadership and Management Development Trainers Course. Selected training techniques for leadership methods and related advanced management development and behavioral science skills are incorporated.

Instruction: Basic introduction to leadership/interpersonal relations training. Focus of the course is the application of training and instructional techniques which will provide the students with skills in conducting a basic course in leadership and management development. Topics include group dynamics, communication modes, interpersonal relationships models, and performance and personal counseling.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in leadership/interpersonal relations (4/81); in the upper-division baccalaureate category, 1 semester hour in training and development (4/81).

AR-1406-0035

AIR DEFENSE ARTILLERY (ADA) ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: 1-27-C42; 1-27-C42B; 1-23-C42; O-16-C42.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 8-9 weeks (312 hours).

Exhibit Dates: 1/90-2/92.

Objectives: To provide senior enlisted personnel with a working knowledge of the duties, instructional methods and general overall knowledge necessary to perform as senior non-commissioned officers in air defense management.

Instruction: The conferences and practical exercises include topics such as small unit self-defense, pilot tactics, and instruction in HIMAD and SHORAD systems deployment.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (11/88).

AR-1406-0036

A SYSTEMS APPROACH TO TRAINING
(Instructional Systems Development)

Course Number: 5K061FD92;
5K061FD90.

Location: Field Artillery School, Ft. Sill, OK.

Length: 3 weeks (120 hours).

Exhibit Dates: 1/90-Present.

Objectives: The student prepares instructional materials, learns task analysis and teaching by objectives.

Instruction: Through lectures, demonstrations and assigned projects the student learns to recognize tasks and objectives, develop several types of instructional materials including self-paced instructional materials and validation techniques. The material covered emphasizes using student performance objectives and criteria testing.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in instructional materials development (10/84).

AR-1406-0037

INSTRUCTOR TRAINING

Course Number: 5K061FD90.

Location: Field Artillery School, Ft. Sill, OK.

Length: 2 weeks (83 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide faculty with the necessary skills and techniques needed for classroom instruction.

Instruction: The course includes instruction in the principles of assessing needs, selecting proper audio visual and demonstration equipment, classroom management, criterion testing and editing instructional materials. The student is required to give various types and lengths of presentations that are critiqued by the instructional staff.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in speech or public speaking (11/85); in the upper-division baccalaureate category, 3 semester hours in teaching methods (11/85).

AR-1406-0038

TECHNICAL SERVICES OFFICER (TSO) LEADERSHIP WORKSHOP

Course Number: None.

Location: Deputy Chief of Staff for Personnel, San Francisco, CA; Deputy Chief of Staff for Personnel, Dallas, TX; Deputy Chief of Staff for Personnel, Baltimore, MD; Deputy Chief of Staff for Personnel, Atlanta, GA.

Length: 1-2 weeks (64 hours).

Exhibit Dates: 1/90–1/90.

Objectives: To provide an overview of certain aspects of the personnel management function and its interface with other functional areas of the organization.

Instruction: Lectures and practical exercises in the fundamentals of personnel management, including human resource planning, the regulatory base, wage and salary administration, records management, and labor relations. No formal evaluation of students is conducted.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel management based on departmental evaluation (assessment/interview) (8/81).

AR-1406-0039

BASIC TRAINING AND DEVELOPMENT

Course Number: None.

Location: Deputy Chief of Staff for Personnel, San Francisco, CA; Deputy Chief of Staff for Personnel, Dallas, TX; Deputy Chief of

Staff for Personnel, Baltimore, MD; Deputy Chief of Staff for Personnel, Atlanta, GA.

Length: 1-2 weeks (64 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide and overview of training and development policies, administrative practices, management procedures and program constraints within the civilian personnel force of the Department of the Army.

Instruction: The course utilizes a variety of instructional methods including pre-course text readings, lectures, handouts, case study, audiovisual materials, and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in training and development within the Department of the Army, subject to departmental interview (assessment/evaluation) (8/81).

AR-1406-0052

PRINCIPLES OF COUNSELING

Course Number: 1-19-XL-100.

Location: Chemical School, Ft. McClellan, AL; Military Police School, Ft. McClellan, AL.

Length: Self-paced, 1-2 weeks (50 hours).

Exhibit Dates: 1/90–3/92.

Objectives: To train instructors/trainers in the basic skills of counseling for an academic environment.

Instruction: This course focuses on developing the basic skills of counseling required to improve instructor/trainer-student communications. The course is conducted in a self-paced workshop and provides learning materials, multimedia instruction, and resource personnel for students.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in guidance and counseling (3/82).

AR-1406-0054

BASIC INSTRUCTOR TRAINING COURSE

Course Number: 19H-BIT; 1-19-XB-100.

Location: Military Police School, Ft. McClellan, AL.

Length: Self-paced, 3-4 weeks (94-110 hours).

Exhibit Dates: 1/90–1/92.

Objectives: To provide students with knowledge and skills needed to become effective basic instructors.

Instruction: Cognitive and practical experiences within a systems approach to instructional needs analysis, design, presentation, and evaluation are utilized. Instructional strategies and platform skills are emphasized.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in methods of instruction (3/82).

AR-1406-0055

TECHNIQUES AND PROCEDURES FOR FIELD MANUAL DEVELOPMENT

Course Number: 1-19-XT-100.

Location: Military Police School, Ft. McClellan, AL.

Length: Self-paced, 1-2 weeks (58 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide student with techniques and strategies for designing and developing varied instructional materials.

Instruction: This course includes an introduction to manual writing techniques and pro-

cedures. Performance evaluation of the actual writing project is coordinated with a course manager, editor, and graphics specialist.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in instructional materials design (3/82).

AR-1406-0056

INSTRUCTOR TRAINING COURSE

Course Number: None.

Location: Chemical School, Ft. McClellan, AL.

Length: 2-3 weeks (102 hours).

Exhibit Dates: 1/90–1/92.

Objectives: To provide selected officers, noncommissioned officers, enlisted personnel, and civilians with the knowledge and skills needed to be competent resident instructors.

Instruction: Includes a systems approach to instructor training that emphasizes analysis, design, and appropriate instructional strategies. The course focuses on developing behavioral learning objectives and generating a variety of platform skills.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in methods of instruction (3/82).

AR-1406-0057

JOB AND TASK ANALYSIS (ISD PHASE 1)

Course Number: 1-19XC-100.

Location: Military Police School, Ft. McClellan, AL.

Length: Self-paced, 3-4 weeks (120 hours).

Exhibit Dates: 1/90–1/94.

Objectives: To provide selected enlisted personnel, noncommissioned and commissioned officers with general knowledge of the instructional system design process.

Instruction: Self-paced instruction and practical exercises in job analysis, task identification, developing objectives, and job performance measures as defined by criterion tests. Participants receive instruction in selecting instructional materials, instructional settings, and delivery systems. Management decisions relevant to the job and task analysis process are covered, along with the conduct of internal and external evaluations for instructional system revision.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in job and task analysis (3/82).

AR-1406-0058

DESIGN (ISD PHASE 2); DEVELOP (ISD PHASE 3); CONTROL/EVALUATION (ISD PHASE 5); VALIDATION PROCEDURES FOR COURSE MATERIALS AND TESTS

Course Number: 1-19-XM-100; 1-19-XG-100; 1-19-XE-100; 1-19-XD-100.

Location: Military Police School, Ft. McClellan, AL.

Length: Self-paced, 3 weeks (89-90 hours).

Exhibit Dates: 1/90–1/94.

Objectives: To train participants in the following techniques and procedures: designing instruction using job analysis information, course development, course material and test validity, and control/evaluation.

Instruction: These four short courses emphasize objectives, mastery, test design,

sequencing of instruction, learning activities, material and media selection and evaluation/control.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in instructional materials and methods of teaching for the completion of all four courses (3/82).

AR-1406-0061

ARMY REENLISTMENT OFFICER

Course Number: 7C-F17.

Location: Recruiting and Retention School, Ft. Benjamin Harrison, IN.

Length: 1 week (50 hours).

Exhibit Dates: 1/90-12/91.

Objectives: To prepare officers for responsibilities as unit/installation reenlistment officers.

Instruction: Instruction and practical exercises including policies and responsibilities related to a reenlistment program, such as separation, retention, reenlistment ceremony, award and incentives and computation of service time.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (3/85).

AR-1406-0068

BASIC NONCOMMISSIONED OFFICER (NCO) 11B
TRACK

Course Number: *Version 1:* 010-18-11B30; 010-16-11B30; 010-15-11B30; 010-14-11B30; 010-13-11B30; 010-12-11B30; 010-10-11B30; 010-6-11B30; 010-5-11B30; 010-4-11B30; 010-3-11B30; 010-2-11B30; 010-1-11B30. *Version 2:* 010-18-11B30; 010-16-11B30; 010-15-11B30; 010-14-11B30; 010-13-11B30; 010-12-11B30; 010-10-11B30; 010-9-11B30; 010-7-11B30; 010-6-11B30; 010-5-11B30; 010-4-11B30; 010-3-11B30; 010-2-11B30; 010-1-11B30.

Location: *Version 1:* NCO Academy, Europe; NCO Academy, Panama; NCO Academy, HI; NCO Academy, AK; NCO Academy, Ft. Lewis, WA; NCO Academy, Ft. Ord, CA; NCO Academy, Ft. Carson, CO; NCO Academy, Ft. Polk, LA; NCO Academy, Ft. Campbell, KY; NCO Academy, Ft. Stewart, GA; NCO Academy, Ft. Benning, GA; NCO Academy, Ft. Bragg, NC; NCO Academy, Ft. Drum, NY; Infantry School, Ft. Benning, GA. *Version 2:* NCO Academy, Europe; NCO Academy, Panama; NCO Academy, HI; NCO Academy, AK; NCO Academy, Ft. Lewis, WA; NCO Academy, Ft. Ord, CA; NCO Academy, Ft. Carson, CO; NCO Academy, Ft. Hood, TX; NCO Academy, Ft. Riley, KS; NCO Academy, Ft. Polk, LA; NCO Academy, Ft. Campbell, KY; NCO Academy, Ft. Stewart, GA; NCO Academy, Ft. Benning, GA; NCO Academy, Ft. Bragg, NC; NCO Academy, Ft. Knox, KY; Infantry School, Ft. Benning, GA.

Length: *Version 1:* 7 weeks (328 hours). *Version 2:* 5 weeks (222 hours).

Exhibit Dates: *Version 1:* 10/90-9/92. *Version 2:* 1/90-9/90.

Objectives: *Version 1:* To train infantry leaders to manage, lead, train, and direct subordinates to maintain, operate, and employ weapons and equipment. *Version 2:* To train infantry leaders to manage, lead, train, and direct subordinates to maintain, operate, and employ weapons and equipment.

Instruction: *Version 1:* Performance oriented training techniques in leadership and

management skills using lectures and demonstrations. This course includes leadership, maintenance, tactics communications, navigation, weapons, and management. *Version 2:* Performance oriented training techniques in leadership and management skills using lectures and demonstrations. This course includes leadership, maintenance, tactics communications, navigation, weapons, and management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel management. See AR-1406-0090 for common core credit (10/90). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel management (9/85).

AR-1406-0069

BASIC NONCOMMISSIONED OFFICER (NCO) 11C
TRACK

Course Number: *Version 1:* 010-18-11C30; 010-13-11C30; 010-9-11C30; 010-5-11C30; 010-3-11C30. *Version 2:* 010-18-11C30; 010-16-11C30; 010-15-11C30; 010-14-11C30; 010-13-11C30; 010-12-11C30; 010-10-11C30; 010-9-11C30; 010-7-11C30; 010-6-11C30; 010-5-11C30; 010-4-11C30; 010-3-11C30; 010-2-11C30; 010-1-11C30.

Location: *Version 1:* NCO Academy, Europe; NCO Academy, Ft. Lewis, WA; NCO Academy, Ft. Hood, TX; NCO Academy, Ft. Campbell, KY; NCO Academy, Ft. Benning, GA. *Version 2:* Europe, Federal Republic of Germany; NCO Academy, Panama; NCO Academy, HI; NCO Academy, AK; NCO Academy, Ft. Lewis, WA; NCO Academy, Ft. Ord, CA; NCO Academy, Ft. Carson, CO; NCO Academy, Ft. Hood, TX; NCO Academy, Ft. Riley, KS; NCO Academy, Ft. Polk, LA; NCO Academy, Ft. Campbell, KY; NCO Academy, Ft. Stewart, GA; NCO Academy, Ft. Benning, GA; NCO Academy, Ft. Bragg, NC; NCO Academy, Ft. Knox, KY; Infantry School, Ft. Benning, GA.

Length: *Version 1:* 7 weeks (315 hours). *Version 2:* 5 weeks (205 hours).

Exhibit Dates: *Version 1:* 10/90-5/93. *Version 2:* 1/90-9/90.

Objectives: *Version 1:* To train infantry leaders to lead, train, and direct subordinates to maintain, operate, and employ weapons and equipment. *Version 2:* To train infantry leaders to lead, train, and direct subordinates to maintain, operate, and employ weapons and equipment.

Instruction: *Version 1:* Performance oriented training techniques in management and leadership skills using lectures and demonstrations. The course includes maintenance, tactics, communications, navigation, and training management. *Version 2:* Performance oriented training techniques in management and leadership skills using lectures and demonstrations. The course includes maintenance, tactics, communications, navigation, and training management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel management. See AR-1406-0090 for common core credit (9/85). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel management (9/85).

AR-1406-0070

BASIC NONCOMMISSIONED OFFICER (NCO) 11M
TRACK

Course Number: *Version 1:* 010-10-11M30; 010-9-11M30; 010-7-11M30; 010-6-11M30; 010-4-11M30; 010-3-11M30. *Version 2:* 010-18-11M30; 010-16-11M30; 010-15-11M30; 010-14-11M30; 010-13-11M30; 010-12-11M30; 010-10-11M30; 010-9-11M30; 010-7-11M30; 010-6-11M30; 010-5-11M30; 010-4-11M30; 010-3-11M30; 010-2-11M30; 010-1-11M30.

Location: *Version 1:* NCO Academy, Europe; NCO Academy, Ft. Hood, TX; NCO Academy, Ft. Polk, LA; NCO Academy, Ft. Riley, KS; NCO Academy, Ft. Stewart, GA; NCO Academy, Ft. Benning, GA. *Version 2:* NCO Academy, Europe; NCO Academy, Panama, CZ; NCO Academy, Hawaii; NCO Academy, Ft. Greeley, AK; NCO Academy, Ft. Lewis, WA; NCO Academy, Ft. Ord, CA; NCO Academy, Ft. Carson, CO; NCO Academy, Ft. Hood, TX; NCO Academy, Ft. Riley, KS; NCO Academy, Ft. Polk, LA; NCO Academy, Ft. Campbell, KY; NCO Academy, Ft. Stewart, GA; NCO Academy, Ft. Benning, GA; NCO Academy, Ft. Bragg, NC; NCO Academy, Ft. Knox, KY; Infantry School, Ft. Benning, GA.

Length: *Version 1:* 7 weeks (315 hours). *Version 2:* 5-6 weeks (263 hours).

Exhibit Dates: *Version 1:* 10/90-12/92. *Version 2:* 1/90-9/90.

Objectives: *Version 1:* To train personnel in management, leadership, and critical job tasks. *Version 2:* To train personnel in management, leadership, and critical job tasks.

Instruction: *Version 1:* Performance-oriented training techniques in management leadership skill development using lectures and demonstrations. Students are rotated through leadership positions during the course. *Version 2:* Performance-oriented training techniques in management leadership skill development using lectures and demonstrations. Students are rotated through leadership positions during the course.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel management. See AR-1406-0090 for common core credit (10/90). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel management (9/85).

AR-1406-0071

BASIC NONCOMMISSIONED OFFICER (NCO) 11H
TRACK

Course Number: *Version 1:* 010-18-11H30; 010-6-11H30; 010-3-11H30; 010-2-11H30. *Version 2:* 010-18-11H30; 010-16-11H30; 010-15-11H30; 010-14-11H30; 010-13-11H30; 010-12-11H30; 010-10-11H30; 010-9-11H30; 010-7-11H30; 010-6-11H30; 010-5-11H30; 010-4-11H30; 010-3-11H30; 010-2-11H30; 010-1-11H30.

Location: *Version 1:* NCO Academy, Europe; NCO Academy, Ft. Polk, LA; NCO Academy, Ft. Bragg, NC; NCO Academy, Ft. Benning, GA. *Version 2:* NCO Academy, Europe; NCO Academy, Panama, CZ; NCO Academy, Hawaii; NCO Academy, Ft. Greeley, AK; NCO Academy, Ft. Lewis, WA; NCO Academy, Ft. Ord, CA; NCO Academy, Ft. Carson, CO; NCO Academy, Ft. Hood, TX; NCO

Academy, Ft. Riley, KS; NCO Academy, Ft. Polk, LA; NCO Academy, Ft. Campbell, KY; NCO Academy, Ft. Stewart, GA; NCO Academy, Ft. Benning, GA; NCO Academy, Ft. Bragg, NC; NCO Academy, Ft. Knox, KY; Infantry School, Ft. Benning, GA.

Length: *Version 1:* 7 weeks (318 hours). *Version 2:* 5-6 weeks (187 hours).

Exhibit Dates: *Version 1:* 10/90-5/93. *Version 2:* 1/90-9/90.

Objectives: *Version 1:* To train infantry section leaders to lead, train, and direct subordinates to maintain, operate, and employ weapons. *Version 2:* To train infantry section leaders to lead, train, and direct subordinates to maintain, operate, and employ weapons.

Instruction: *Version 1:* Performance oriented training in management and leadership skills and techniques using lectures and demonstrations. *Version 2:* Performance oriented training in management and leadership skills and techniques using lectures and demonstrations.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel management; see AR-1406-0090 for the common leader training (10/90). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel management (9/85).

AR-1406-0072

T-42 INSTRUCTOR PILOT (IP) METHODS OF INSTRUCTION

Course Number: None.

Location: Aviation Center, Ft. Rucker, AL.

Length: Self-paced, 4 weeks (157 hours).

Exhibit Dates: 1/90-1/90.

Objectives: To train aviators to conduct transition training for T-42 instructor pilots.

Instruction: Self-paced proficiency advancement course employing completely individualized instruction in T-42 aircraft systems, flight training, and methods of instruction.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principles and methods of instruction (11/86).

AR-1406-0075

TH-55 INSTRUCTOR PILOT METHODS OF INSTRUCTION

Course Number: None.

Location: Aviation Center, Ft. Rucker, AL.

Length: 6 weeks (189 hours).

Exhibit Dates: 1/90-1/90.

Objectives: To qualify rotary-wing pilots as instructor pilots for primary rotary-wing flight training.

Instruction: Course provides academic and flight instruction which includes regulations and procedures, aircraft systems, forms and records, instructing fundamentals, flight safety, aerodynamics, transition flight training, and human relations.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principles and methods of instruction (11/86).

Related Occupations: 100B; 15A.

AR-1406-0076

UH-1 CONTACT INSTRUCTOR PILOT (INTERIM)

Course Number: None.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4-6 weeks (153-225 hours).

Exhibit Dates: 1/90-1/90.

Objectives: To train selected commissioned and warrant officer aviators as unit instructor pilots in transition/standardization training in the UH-1 helicopter.

Instruction: Lectures and practical training in day/night visual flight training; before-flight, basic-flight, approach/landing, and emergency tasks; application of principles and techniques of flight instruction, aircraft systems and maintenance.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principles and methods of instruction (11/86).

AR-1406-0077

UH-1 CONTACT INSTRUCTOR PILOT METHODS OF INSTRUCTION

Course Number: None.

Location: Aviation Center, Ft. Rucker, AL.

Length: 6 weeks (225 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train selected commissioned and warrant officer aviators as unit instructor pilots in transition/standardization training in the UH-1 helicopter.

Instruction: Lectures and practical training in day/night visual flight rules; before-flight, basic-flight, approach/landing, and emergency tasks; application of principles and techniques of flight instruction; aircraft systems and maintenance.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principles and methods of instruction (11/86).

AR-1406-0079

UH-60 INSTRUCTOR PILOT

Course Number: 2C-F33.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4-5 weeks (175-187 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train UH-60 aviators as instructor pilots capable of teaching and evaluating UH-60 flight training.

Instruction: Flight and academic instruction in the UH-60 helicopter and in methods of instruction.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in basic aerodynamics and theory of flight, 3 in basic helicopter and flight systems, 3 in principles and methods of instruction, and credit for flight training on the basis of institutional evaluation (11/86).

AR-1406-0080

UH-1 COMBAT SKILLS DAY/NIGHT/NIGHT VISION GOGGLES METHODS OF INSTRUCTION

Course Number: None.

Location: Aviation Center, Ft. Rucker, AL.

Length: 8 weeks (209 hours).

Exhibit Dates: 1/90-Present.

Objectives: To qualify selected helicopter instructor pilots as UH-1 Combat Skills Day/Night/Night Vision Goggles instructor pilots.

Instruction: Flight and academic training in combat skills, night-day night vision goggle

UH-1 aircrew training, and manual maneuver tasks under combat conditions.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/86).

AR-1406-0081

OFFICE MACHINE REPAIRER NONCOMMISSIONED OFFICER (NCO) ADVANCED

(Mechanical Maintenance Noncommissioned Officer (NCO) Advanced, MOS 41J)

Course Number: 6-63-C42 (41J); 670-41J40.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 6-8 weeks (217-355 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to apply the skills and technical knowledge and serve as a supervisor.

Instruction: Lectures, demonstrations, and practical exercises in leadership, communication skills, fundamentals of instruction, logistics management, and refresher training in the appropriate military occupational specialty (MOS). Emphasis in on leadership and on verbal and written communication.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (1/88).

Related Occupations: 41J.

AR-1406-0082

CHAPLAIN CANDIDATE

Course Number: 5G-F5.

Location: Chaplain Center and School, Ft. Monmouth, NJ.

Length: 5-6 weeks (204 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform basic soldier survival skills, will know military protocol, customs, and organization, the role of the chaplain in the Army, and be proficient in lesson and training planning.

Instruction: Topics include military organization, customs, courtesies, and ceremonies, physical fitness, military survival skills, health and first aid, military administration and training, pastoral ministry to minorities, hospital patients, and other chaplains.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in technical communication and 2 in health and first aid (4/87); in the upper-division baccalaureate category, 1 semester hour in human relations (4/87).

AR-1406-0083

DIVISION CHAPLAIN

Course Number: 5G-F4.

Location: Chaplain Center and School, Ft. Monmouth, NJ.

Length: 2 weeks (84 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to serve as the senior supervising chaplain in an Army division (10,000 persons) using management skills (personnel, fiscal, logistics, and training) in the tactical garrison environment and in mobilization and deployment conditions.

Instruction: Topics include command and staff relationships, pastoral responsibilities, personnel management, the master religious program, training programs, fund management, logistical support, spiritual dimensions, and civilian/military religious liaison.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (6/90).

AR-1406-0084

INSTALLATION CHAPLAIN

Course Number: 5G-F3.

Location: Chaplain Center and School, Ft. Monmouth, NJ.

Length: 2 weeks (81 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to serve as supervising chaplain at an Army installation, including managing chapel facilities and fiscal resources, supervising personnel, planning and programming activities, and advising senior command and staff personnel on the religious, ethical, and moral climate of the installation.

Instruction: Topics include command and staff relationships, pastoral responsibilities, supervision and management of religious ministry resources, personnel programs and training, deployment responsibilities and transitioning issues.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of management (6/90).

AR-1406-0085

STAFF AND PARISH DEVELOPMENT CONSULTANT

Course Number: 5G-ASI7D.

Location: Chaplain Center and School, Ft. Monmouth, NJ.

Length: 3 weeks (132 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to plan and implement interventions, to apply staff/parish development concepts to organizational scenarios, to perform data analysis, and to evaluate interventions.

Instruction: Topics include entering a consultant/client contractual relationship, contracting, data gathering skills, concepts in intervention planning, intervention strategies, group and organizational issues, feedback and analysis concepts, evaluating interventions, and exiting a consultant/client contractual relationship. Course includes small-group scenarios.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in organizational group dynamics (4/87).

AR-1406-0087

ADVANCED NONCOMMISSIONED OFFICER (NCO)
MOS 00U

Course Number: 7-71-C42.

Location: Institute for Personnel and Resource Management, Ft. Benjamin Harrison, IN.

Length: 5-17 weeks (168-444 hours).

Exhibit Dates: 1/90–12/91.

Objectives: To provide selected personnel with advanced leadership skills, military subjects, and communication skills for effective supervision of specific MOS tracks.

Instruction: Lectures and practical exercises in a basic core including written and oral communication, management principles, unit training, and combat survival. MOS options are as follows: recruitment and reenlistment, equal opportunity, club management, legal topics, chaplain assisting, and data processing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, see AR 1404-0035 for common core credit (3/85); in the upper-division baccalaureate category, 1 semester hour in personnel management (3/85).

AR-1406-0088

ADVANCED NONCOMMISSIONED OFFICER (NCO)
MOS 00E

Course Number: 7-71-C42.

Location: Institute for Personnel and Resource Management, Ft. Benjamin Harrison, IN.

Length: 5-17 weeks (168-444 hours).

Exhibit Dates: 1/90–9/91.

Objectives: To provide selected personnel with advanced leadership skills, military subjects, and communication skills for effective supervision of specific MOS tracks.

Instruction: Lectures and practical exercises in a basic core including written and oral communication, management principles, unit training, and combat survival. MOS options are as follows: recruitment and reenlistment, equal opportunity, club management, legal topics, chaplain assisting, and data processing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of supervision. See AR-1404-0035 for common core credit (3/85).

Related Occupations: 00E.

AR-1406-0090

BASIC NONCOMMISSIONED OFFICER (NCO)
COMMON LEADER TRAINING
(Basic Noncommissioned Officer (NCO)
Common Core)

Course Number: Version 1: 400-BNCOC-MTA. Version 2: None.

Location: Training Centers, US and Overseas.

Length: Version 1: 2 weeks (85 hours). Version 2: 1-2 weeks (45-49 hours).

Exhibit Dates: Version 1: 4/94–Present. Version 2: 1/90–3/94.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to provide entry level leadership to a group of up to 12 subordinates; to train these individuals to successfully perform their jobs in the current operating environment; to instill proper behavioral habits in subordinates; to supervise organizational maintenance activities and property accountability; and to employ the systems approach to personnel training. Version 2: Upon completion of the course, the student will be able to lead a squad or section, to train soldiers to fight and survive on a modern battlefield, to develop and maintain discipline, to supervise maintenance activities and property accountability, and to use a systems approach to training.

Instruction: Version 1: Topics include entry-level leadership skills; personal and performance counseling; training techniques; basic management skills; and introductory resource

management skills. Version 2: Topics include leadership, personal and performance counseling, training, management, resource management, and military skills.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in supervision or in leadership (6/95). Version 2: In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel supervision (10/88).

AR-1406-0091

SKILL QUALIFICATION TEST (SQT) DEVELOPER'S
WORKSHOP

Course Number: None.

Location: Various locations, Continental US.

Length: 80 hours.

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the workshop the student will be able to develop, validate, prepare for printing, and maintain quality control/assurance for skill qualification tests.

Instruction: Self-paced instruction in criterion-referenced measurement is presented. The workshop modules cover task selection; item writing; item tryout and analysis; establishing training standards, time limits, and minimum passing score; preparing final test materials; creating scoring templates; and monitoring test performance and quality control/assurance.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in an introductory course in criterion-referenced measurement (6/87).

AR-1406-0092

STAFF AND FACULTY DEVELOPMENT
(Faculty Development)

Course Number: 5K-F3/520-F3.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 3 weeks (117-121 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be assigned as instructor at the Academy of Health Sciences.

Instruction: Lectures, demonstrations, and practical exercises including instructional objectives, test construction, student counseling, lesson plan preparation, teaching aids, school organization and regulations, and management of the learning environment.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in instructional methods (8/94).

AR-1406-0093

TELEPHONE CENTRAL OFFICE REPAIR BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 622-29N30.

Location: Signal School, Ft. Gordon, GA.

Length: 6-7 weeks (230-232 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to supervise subordinates who perform maintenance, troubleshooting and repair of dial/manual central office telephone exchange equipment and perform technical inspections.

Instruction: Classes, demonstrations, lectures on operating, testing, maintaining, and

repairing specific telephone exchange equipment.

Credit Recommendation: In the vocational certificate category, 3 semester hours in telephone central exchange supervision (5/90); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems troubleshooting and maintenance. See AR-1406-0090 for common core credit (5/90).

Related Occupations: 29N.

AR-1406-0094

INSTRUCTOR TRAINING WORKSHOP

Course Number: IT24.

Location: Combined Arms Training Center, Vilsack, W. Germany.

Length: 2 weeks (68 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to write and edit instructional objectives, performance tests and lesson plans; select and develop training aids, student handouts, and practical exercises; counsel students with educational problems; prepare and present classes using a practical exercise, performance test, and self-paced/small group presentation.

Instruction: Lecture, demonstration, and seminar; the student is required to demonstrate mastery of several instructional skills and methods by means of student presentations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in instructional methods (10/88).

AR-1406-0095

ANTITERRORISM INSTRUCTOR QUALIFICATION

Course Number: 5K-F5/012-F30.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 1-2 weeks (67-70 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to teach anti-terrorism to individuals and units deploying overseas in order to minimize vulnerability to enemy attack.

Instruction: Lectures and examinations in the following topics: introduction to terrorism, terrorism operations, individual protective measures, and hostage survival techniques.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in test construction (7/91).

AR-1406-0096

SPECIAL FORCES TECHNICIAN WARRANT OFFICER BASIC

(Special Forces Technician Warrant Officer Technical/Tactical Certification)

(Special Operations Technician Warrant Officer Technical Certification)

Course Number: *Version 1:* 2E-180A. *Version 2:* 2E-180A.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: *Version 1:* 18 weeks (942-968 hours). *Version 2:* 13-14 weeks (618 hours).

Exhibit Dates: *Version 1:* 10/93–Present. *Version 2:* 1/90–9/93.

Learning Outcomes: *Version 1:* Upon completion of the course the student will be able to implement leadership and management duties

to conduct special operations including: security, intelligence, psychological operations, civil affairs, operations command, deployment, and reconnaissance. Student will develop effective writing and computer word processing skills. *Version 2:* Upon completion of the course the student will be able to implement leadership and management duties to conduct special operations including: security, intelligence, psychological operations, civil affairs, operations command, deployment, and reconnaissance.

Instruction: *Version 1:* Lectures, discussion, demonstrations, and field-based exercises are used to instruct students. Included are topics in supervision and management, role playing and computer usage. *Version 2:* Lectures, discussion, demonstrations, and field-based exercises are used to instruct students. Included are topics in supervision and management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management, 2 in principles of supervision, and 2 in word processing (2/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management and 2 in principles of supervision (12/88).

Related Occupations: 180A.

AR-1406-0100

PERSONNEL ADMINISTRATION SPECIALIST BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 500-75B30. *Version 2:* 500-75B30.

Location: Soldier Support Institute, Ft. Benjamin Harrison, IN; Adjutant General School, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 6-7 weeks (266 hours). *Version 2:* 5-6 weeks (209 hours).

Exhibit Dates: *Version 1:* 10/91–Present. *Version 2:* 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course the student will be able to perform appropriate functions in a personnel office including review of personnel evaluations, personnel classification, assignment of personnel based on qualifications and to understand promotion policies and procedures. Student will also be familiar with computer set-up, activation and operation involving assessing, creating, editing, retention of documents, word processing and printing. *Version 2:* Upon completion of the course the student will be able to perform appropriate functions in a personnel office including review of personnel evaluations, personnel classification, assignment of personnel based on qualifications and to understand promotion policies and procedures. Student will also be familiar with computer set-up, activation and operation involving assessing, creating, editing, retention of documents, word processing and printing.

Instruction: *Version 1:* Instruction involves lectures, demonstrations, and in-class exercises in principles of supervision, computer operations, and personnel management. *Version 2:* Instruction involves lectures, demonstrations, and in-class exercises in principles of supervision, computer operations, and personnel management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 1 in computer applications (12/91).

Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision, 1 in introduction to computer applications (12/88); in the upper-division baccalaureate category, 1 semester hour in personnel management (12/88).

Related Occupations: 75B.

AR-1406-0101

1. ARNG RECRUITING FIELD SALES MANAGER 2. NATIONAL GUARD RECRUITING ADVANCED

Course Number: *Version 1:* 501-F31 (ARNG). *Version 2:* 501-F16.

Location: *Version 1:* National Guard Professional Education Center, Cp. Joseph T. Robinson, North Little Rock, AR. *Version 2:* Recruiting and Retention School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 2 weeks (80 hours). *Version 2:* 1-2 weeks (56 hours).

Exhibit Dates: *Version 1:* 10/90–Present. *Version 2:* 1/90–9/90.

Learning Outcomes: *Version 1:* Upon completion of the course the student will be able to evaluate selling skills, provide recruiter training; interpret and analyze market trends; and identify developmental needs of sales team. *Version 2:* Upon completion of the course the student will be able to develop a sales presentation, demonstrate interpersonal skills, and analyze demographic data.

Instruction: *Version 1:* Lectures, discussions, practical exercises and supervised self-study are methods used. *Version 2:* Lectures and classroom discussion on interpersonal communications, selling skills, positive reinforcement, performance evaluation techniques and the use of demographic data.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in sales management and 1 in interpersonal communications (12/91). *Version 2:* In the vocational certificate category, 1 semester hour in sales fundamentals and 1 in interpersonal communications (12/88).

AR-1406-0102

PERSONNEL SERGEANT ADVANCED NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 5-71-C42. *Version 2:* 500-75Z40.

Location: *Version 1:* Adjutant General School, Ft. Benjamin Harrison, IN. *Version 2:* Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 12 weeks (477 hours). *Version 2:* 10 weeks (360-369 hours).

Exhibit Dates: *Version 1:* 1/93–Present. *Version 2:* 1/90–12/92.

Learning Outcomes: *Version 1:* Upon completion of the course the student will be able to prepare clear, well-organized correspondence; supervise general personnel activities at the first-line level; and supervise development and processing of computerized personnel records. *Version 2:* Upon completion of the course, the student will be able to manage a medium-sized personnel function.

Instruction: *Version 1:* Lectures and practical exercises. *Version 2:* Includes classroom instruction and practical exercises in leadership, communication skills, training management, personnel records management, evaluation and classification systems and programs, as well as military specific subjects.

Credit Recommendation: *Version 1* In the lower-division baccalaureate/associate degree category, 1 semester hour in business communications, 2 in personnel supervision, and 3 in office administration (12/91). *Version 2* In the upper-division baccalaureate category, 3 semester hours in personnel management (12/88).

Related Occupations: 75Z.

AR-1406-0103

RECRUITER

Course Number: 501-SQ14.

Location: Recruiting and Retention School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 6 weeks (238-249 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to set goals and establish practices, develop a sales presentation, use competitive strategies, evaluate market data, use interviewing skills and make public promotional presentations.

Instruction: Methods of instruction include lectures, role playing, and class room discussion. Topics covered include sales prospecting, market analysis, effective communication, public speaking, interviewing skills and techniques, and time management.

Credit Recommendation: In the vocational certificate category, 2 semester hours in sales fundamentals, 2 in interpersonal communications (5/92).

AR-1406-0104

BATTALION S1/ADJUTANT STAFF OFFICER (Battalion S1)

Course Number: 7C-F14.

Location: Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 5-6 weeks (214-244 hours).

Exhibit Dates: 1/90–12/91.

Learning Outcomes: Upon completion of the course, the student will be able to manage the personnel resources functions of a medium to large organization.

Instruction: Includes classroom and practical exercises in business communications, safety programs, training, leadership, motivation, performance management, classification systems, evaluation techniques, and personnel information systems and recordkeeping.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in business communications (12/88); in the upper-division baccalaureate category, 3 semester hours in human resource management (12/88).

AR-1406-0105

PERSONNEL ADMINISTRATION SPECIALIST

Course Number: 500-75B10/75B10 (ST); 500-75B10.

Location: Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 7-9 weeks (239-306 hours).

Exhibit Dates: 1/90–12/91.

Learning Outcomes: After 12/91 see AR-1406-0153. Upon completion of the course, the student will be knowledgeable of clerical duties, including typewriting, filing, office procedures, and computer application.

Instruction: Classroom instruction and practical exercises including basic typewriting

and computer application, unit files and publications, reports and correspondence.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in keyboarding, 2 in office procedures, and 1 in clerical record keeping (11/91).

Related Occupations: 75B.

AR-1406-0107

ELECTRONICS EQUIPMENT MAINTENANCE ADVANCED NONCOMMISSIONED OFFICER (NCO)

Course Number: 1-29-C42 (39X).

Location: Signal School, Ft. Gordon, GA.

Length: 14-15 weeks (553 hours).

Exhibit Dates: 1/90–3/92.

Learning Outcomes: Upon completion of the course the student will be able to use microcomputers including using DOS, word processors, data bases, and spreadsheets; receive and send Army messages; prepare Army forms related to shop management; describe at the overview level a number of pieces of communications equipment.

Instruction: Lectures, practical exercises, and exams on the subject material.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy. See AR-1404-0035 for common core credit (7/89).

Related Occupations: 39X.

AR-1406-0108

TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT (TMDE) ADVANCED NONCOMMISSIONED OFFICER (NCO)

Course Number: 1-29-C42 (35H).

Location: Signal School, Ft. Gordon, GA.

Length: 11-12 weeks (417 hours).

Exhibit Dates: 1/90–2/91.

Learning Outcomes: Upon completion of the course the student will be able to use microcomputers including using DOS, word processors, data bases, and spreadsheets; receive and send Army messages; prepare Army forms related to shop management; describe at the overview level a number of pieces of communications equipment.

Instruction: Lectures, practical exercises, and exams on the subject material.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy. See AR-1404-0035 for common core credit (7/89).

Related Occupations: 35H.

AR-1406-0109

SIGNAL OPERATIONS ADVANCED NONCOMMISSIONED OFFICER (NCO)

Course Number: 1-31-C42.

Location: Signal School, Ft. Gordon, GA.

Length: 18-19 weeks (713-749 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will supervise, coordinate, and provide technical assistance in installing, operating, and managing single and multichannel communications facilities.

Instruction: Lectures and practical experience in microcomputer concepts and application including components and functions, operating systems, programming languages,

and types of software. Includes operation and management of communications facilities.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy. See AR-1404-0035 for common core credit (2/94).

AR-1406-0110

PERSONNEL MANAGEMENT

Course Number: 300.

Location: Reserve Readiness Training Center, Ft. McCoy, WI.

Length: 2 weeks (80 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify the personnel and administrative requirements of the preparatory and alert phase of mobilization; determine the unit's personnel requirements and recommend a personnel management plan; determine the requirements for conducting military boards and investigations and review actions of appointing and reviewing authorities; interpret reenlistment eligibility criteria; and evaluate officer and enlisted promotion criteria and officer appointment criteria.

Instruction: Lecture, discussion in the areas of the personnel phase of organizational planning including mobilization, authorization documents, personnel reporting requirements, manning reports; personnel managements systems including officer and enlisted personnel systems; personnel actions including promotions/appointments, reenlistments, qualitative management, casualty reporting, and awards and decorations; and strength management including retention, strength accounting and benefits for USAR (United States Army Reserve) members and families; practical activities in determining personnel and position requirements, recommendation of personnel management plan, determining requirements for conducting military boards and investigations, interpretation of reenlistment eligibility criteria and evaluation of officer and enlisted promotion criteria and officer appointment criteria.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in administrative management (7/89).

AR-1406-0111

INSTRUCTOR

Course Number: 5000.

Location: Reserve Readiness Training Center, Ft. McCoy, WI.

Length: 2 weeks (48 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to analyze, develop and design course and training materials using various learning strategies; make presentations to adult participants using audience participation, work illustrations, humor and student motivation to learning materials; prepare and sequence objectives and competencies for future classes; prepare examination questions for quizzes and pre- and post-tests; develop graphics, audio visual and written instructional materials; gather and validate instructional materials; develop lesson plans, class outlines, and materials list needed for classroom presentations.

Instruction: Reading, lecture and discussions of effective presentations, on teaching methods, audio-visual materials, testing and evaluation of students and ordering of equipment and materials needed for classroom participation; practical exercises: preparing exam questions, preparing sequence of objectives/learning elements, developing graphics and using audio-visual equipment, preparing stock and equipment orders for classroom materials, and classroom visit to observe teaching techniques, and classroom presentation.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in instructional methods (7/89).

AR-1406-0112

WARRANT OFFICER PROFESSIONAL DEVELOPMENT

Course Number: 8500; 2600.

Location: Reserve Readiness Training Center, Ft. McCoy, WI.

Length: 2 weeks (48 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to solve problems and make decisions involving leadership and planning with the ability to delegate authority, manage resources and develop an information feedback system, and communicate with peers and subordinates using effective communication skills, both verbal and written.

Instruction: Reading, lecture and discussions; leadership orientation including professional ethics within the warrant officer system, supervisory skills, principles and techniques in directing, delegating authority and managing resources; leadership topics involving arms on the air-land battlefield, soldier's team development, stress and battlefield leadership and other leadership skills involving training management evaluation and physical fitness needs of a soldier; show the skills required to lead a unit, address topics such as communications skills, unit assessment, take charge of the unit, and the effects of fear, panic and stress while leading a unit; prepare and present a military briefing using proper leadership and communications skills.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of supervision (7/89).

AR-1406-0113

UH-1 CONTACT, TACTICS, NIGHT/NIGHT VISION GOGGLE (N/NVG) INSTRUCTOR PILOT METHODS OF INSTRUCTION

Course Number: 2C-SI5K/SQIC (UH-1).

Location: Aviation Center, Ft. Rucker, AL.

Length: 14 weeks (461 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, pilots will be qualified as instructors on the UH-1 helicopter.

Instruction: Includes principles of instruction, aerodynamics, aircraft systems, night tactics, aeromedical factors, weapon systems, combat skills, and appropriate flight training.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in flight instructor academic preparation and 3 in flight training for flight instructor (4/90).

AR-1406-0114

AH-1 INSTRUCTOR PILOT METHODS OF INSTRUCTION (MOI) (CONTACT, TACTICS, AND GUNNERY) (NIGHT VISION GOGGLE)

Course Number: 000-SI5K/SQIC (AH-1).

Location: Aviation Center, Ft. Rucker, AL.

Length: 10-11 weeks (368 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, pilots will be qualified as instructors on the AH-1 helicopters.

Instruction: Includes academic instruction in principles of instruction, aerodynamics, aircraft systems, aeromedical factors, night flight, gunnery, weapon systems and appropriate flight training.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in flight instructor academic preparation and 3 in flight training for flight instructor (4/90).

AR-1406-0115

UH-60 METHOD OF INSTRUCTION

Course Number: 2C-SI5K/SQIC (UH-60).

Location: Aviation Center, Ft. Rucker, AL.

Length: 8 weeks (278 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, pilots will be qualified as instructors on the UH-60 helicopter.

Instruction: Includes fundamentals of instructing, aerodynamics, communication, aerodynamics, aeromedical factors, night operations, aircraft systems of UH-60 and appropriate flight training.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in flight instructor academic preparation, and 3 in flight training for flight instructor (4/90).

AR-1406-0116

U-21 INSTRUCTOR PILOT

Course Number: 2B-SI5K/2B-SQIC (U-21).

Location: Aviation Center, Ft. Rucker, AL.

Length: 6-7 weeks (239 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, pilots will be qualified as instructors on the U-21 helicopters.

Instruction: Includes fundamentals of instruction, aerodynamics, navigation, air traffic control, air crew communication, aircraft systems, aeromedical and physiological factors, and appropriate flight training.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in flight instructor academic preparation and 3 in flight training for flight instructor (4/90).

AR-1406-0117

AH-1S INSTRUCTOR PILOT

Course Number: 2C-SI5K/2C-SQIC.

Location: Aviation Center, Ft. Rucker, AL.

Length: 10-11 weeks (373 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, pilots will be qualified as instructors in the AH-1S helicopter.

Instruction: Includes academic instruction in principles of instruction, aerodynamics, aircraft systems, aeromedical factors, night flight, weapon systems, combat skills, and appropriate flight training.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in flight instructor academic preparation and 3 in flight training for flight instructor (4/90).

AR-1406-0118

OH-58D INSTRUCTOR PILOT METHODS OF INSTRUCTION (MOI)

Course Number: 2C/SI5K/SQIC (OH-58D).

Location: Aviation Center, Ft. Rucker, AL.

Length: 10-11 weeks (431 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, pilots will be qualified as instructors on the OH-58D helicopter.

Instruction: Consists of mental and physical skills required for accomplishing instructor pilot duties (day and night tasks) including aircraft systems, airway communications, principles of instruction, navigation, mast mounted sight, airborne target, handover systems, cockpit procedures trainer, mission planning, safety and aeromedical factors.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in flight instructor academic preparation and 3 in flight training for flight instructor (4/90).

AR-1406-0119

OH-58D INSTRUCTOR PILOT

Course Number: 2C-SI 5K/2C-SQIC (OH-58D).

Location: Aviation Center, Ft. Rucker, AL.

Length: 8-9 weeks (349 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, pilots will be qualified as instructors on the OH-58D helicopter.

Instruction: Consists of mental and physical skills required for accomplishing instructor pilot duties (day and night tasks) including aircraft systems airway communication, principles of instruction, navigation, mast mounted sight, airborne target, handover systems, cockpit procedure trainer, mission planning, safety, and aeromedical factors.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in flight instructor academic preparation and 3 in flight training for flight instructor (4/90).

AR-1406-0120

CH-47D INSTRUCTOR PILOT

Course Number: 2C-SI5K/2C-SQIC (CH-47D).

Location: Aviation Center, Ft. Rucker, AL.

Length: 10 weeks (386 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, pilots will be qualified as instructors for CH-47D helicopters.

Instruction: Includes fundamentals of instruction, aviation medical factors, night flying orientation, CH-47D aircraft systems and practical application to flight training.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in flight instructor academic preparation and 3 in flight training for flight instructor (4/90).

AR-1406-0121

AH-64 INSTRUCTOR PILOT METHODS OF INSTRUCTION

Course Number: 2C-SI5K/SQIC (AH-64)

Location: Aviation Center, Ft. Rucker, AL

Length: 9-10 weeks (361 hours)

Exhibit Dates: 1/90–Present

Learning Outcomes: Upon completion of the course, pilots will be qualified as instructors of the AH-64 helicopter.

Instruction: Includes aviation subjects, both academic and flight, on regulation, principles of instruction, aerodynamics, effective communication, night vision systems, aeromedical factors, weapon systems, aircraft systems and flight training in AH-64 helicopter.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in flight instructor academic preparation and 3 in flight training for flight instructor (4/90).

AR-1406-0122

OH-58A/C INSTRUCTOR PILOT

Course Number: 2C-SI5K/2C-SQIC

Location: Aviation Center, Ft. Rucker, AL

Length: 8 weeks (292 hours)

Exhibit Dates: 1/90–Present

Learning Outcomes: Upon completion of the course, pilots will be qualified as instructors in OH-58 A/C helicopters.

Instruction: Consists of mental and physical skills required for accomplishing instructor pilot duties (day and night tasks) including aircraft systems, airway communications, principles of instruction, navigation, mast mounted sight, airborne target handover systems, cockpit procedure trainer, mission planning, safety, and aeromedical factors.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in flight instructor academic preparation and 3 in flight training for flight instructor (4/90).

AR-1406-0123

PERSONNEL AND LOGISTICS STAFF
NONCOMMISSIONED OFFICER (NCO)

Course Number: 500-F22

Location: Sergeants Major Academy, Ft. Bliss, TX

Length: 4-5 weeks (123 hours)

Exhibit Dates: 1/90–4/92

Learning Outcomes: Upon completion of the course, the student will be able to supervise those providing logistical and personnel services.

Instruction: This instruction includes lectures, small group instruction, and performance exercises in leadership and resource management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in military science (4/90).

AR-1406-0125

MILITARY INTELLIGENCE ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: 2-96-C42

Location: Intelligence School, Ft. Huachuca, AZ

Length: 9-10 weeks (407 hours)

Exhibit Dates: 1/90–Present

Learning Outcomes: Upon completion of the course, the student will be able to lead, manage, supervise, and train intelligence personnel in performing the tactical and strategic intelligence tasks of a military intelligence unit, and to prepare and communicate various plans and reports in written and oral form.

Instruction: Instruction includes classroom and practical exercises in leadership, management, administration, and communication skills.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in technical writing. See AR-1404-0035 for common core credit (6/90); in the upper-division baccalaureate category, 1 semester hour in leadership and 2 in human resource management (6/90).

AR-1406-0126

ELECTRONIC WARFARE (EW)/CRYPTOGRAPHIC
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

Course Number: 2-98-C42

Location: Intelligence School, Ft. Huachuca, AZ

Length: 9-10 weeks (407 hours)

Exhibit Dates: 1/90–Present

Learning Outcomes: Upon completion of the course, the student will be able to lead, manage, supervise, and train intelligence personnel in performing the tactical and strategic intelligence tasks of a military intelligence unit, and to prepare and communicate various plans and reports in written and oral form.

Instruction: Instruction includes classroom and practical exercises in leadership, management, administration, and communication skills.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in technical writing. See AR-1404-0035 for common core credit (6/90); in the upper-division baccalaureate category, 1 semester hour in leadership and 2 in human resource management (6/90).

AR-1406-0127

ELECTRONIC WARFARE (EW)/INTERCEPT SYSTEM
MAINTENANCE ANALYST ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: 2-33-C42

Location: Intelligence School, Ft. Huachuca, AZ

Length: 12-13 weeks (510 hours)

Exhibit Dates: 1/90–Present

Learning Outcomes: Upon completion of the course, the student will be able to lead, manage, supervise, and train intelligence personnel in performing the tactical and strategic intelligence tasks of a military intelligence unit, and to prepare and communicate various plans and reports in written and oral form. Student will also be able to plan and supervise maintenance operations on mechanical and electronic

equipment and manage supply procedures for a military intelligence unit.

Instruction: Instruction includes classroom and practical exercises in leadership, management, administration, and communication skills, as well as maintenance concepts, plans and supervision.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in technical writing and 3 in maintenance management. See AR-1404-0035 for common core credit (6/90); in the upper-division baccalaureate category, 1 semester hour in leadership and 2 in human resource management (6/90).

AR-1406-0128

MILITARY INTELLIGENCE OFFICER ADVANCED
(SIGNALS INTELLIGENCE/ELECTRONIC
WARFARE (SIGINT/EW))

Course Number: Version 1: 3-30-C22-35G.
Version 2: 3-30-C22-35G.

Location: Intelligence School, Ft. Huachuca, AZ

Length: Version 1: 20 weeks (767-795 hours). Version 2: 20 weeks (767-795 hours).

Exhibit Dates: Version 1: 6/92–Present.
Version 2: 1/90–5/92.

Learning Outcomes: Version 1: Upon completion of the course, the student will perform military intelligence operations including threat analysis and staff and management functions; make decisions based on intelligence data; write effectively; and be able to apply basic principles of electronic communications. Version 2: Upon completion of the course, the student will perform military intelligence operations including threat analysis and staff and management functions; make decisions based on intelligence data; write effectively; and be able to apply basic principles of electronic communications.

Instruction: Version 1: Topics include management, leadership, writing, military history, geopolitical studies of conflict areas in Central and South America and the USSR/Eastern Europe. Students also participate in computer simulation of a warfare system. Players make decisions as they would in the field involving battle and counterattack. Workstation utilizes all facets of intelligence information and communications. Electronics topics include radio wave propagation, modulation, antennas, transmitters and receivers. Version 2: Topics include management, leadership, writing, military history, geopolitical studies of conflict areas in Central and South America and the USSR/Eastern Europe. Students also participate in computer simulation of a warfare system. Players make decisions as they would in the field involving battle and counterattack. Workstation utilizes all facets of intelligence information and communications. Electronics topics include radio wave propagation, modulation, antennas, transmitters and receivers.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in technical writing and 1 in electronic communication (10/91); in the upper-division baccalaureate category, 3 semester hours in simulation exercise in decision making, 1 in principles of personnel and organizational management, and 2 in international studies in areas of conflict (10/91).

AR-1406-0129

TACTICAL TELECOMMUNICATIONS CENTER
OPERATOR AUTOMATIC DATA
TELECOMMUNICATIONS CENTER OPERATOR

Course Number: 260-72E10/260-72G10.

Location: Signal School, Ft. Gordon, GA.

Length: 11-12 weeks (405 hours).

Exhibit Dates: 1/90-1/91.

Learning Outcomes: Upon completion of the course, the student will be able to operate a telecommunications center and prepare and type messages.

Instruction: Lectures and practical exercises focused on learning to type, operating the communications equipment, and preparing messages.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in keyboarding (6/90).

AR-1406-0130

CHAPLAIN ASSISTANT BASIC NONCOMMISSIONED
OFFICER (NCO) RESERVE COMPONENT

Course Number: 161-71M20-RC.

Location: Various Reserve Training locations; Chaplain Center and School, Ft. Monmouth, NJ.

Length: 117 hours.

Exhibit Dates: 4/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to lead and organize small group activities involving land navigation, maintenance, training, tactical deployment, and equipment operation; will be able to account for appropriated funds, communicate effectively, and care for battle fatigue casualties.

Instruction: Topics include leadership, communications, battle fatigue casualty, religious program management, volunteer management, tactical deployment, equipment operation, tactical operations, and leadership skills.

Credit Recommendation: Credit is not recommended because of the specific nature of the course (6/90).

Related Occupations: 71M.

AR-1406-0132

PERSONNEL STAFF NONCOMMISSIONED OFFICER
(NCO) MILITARY PERSONNEL TECHNICIAN

Course Number: PEC-P-PS2.

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 2 weeks (64 hours).

Exhibit Dates: 3/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform basic administrative and personnel actions with emphasis on the preparation and review of military personnel forms.

Instruction: Lecture and in-class exercises designed to prepare the student to complete forms addressing administrative, financial, and information management actions as well as retention and fitness concerns.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in office management (7/90).

AR-1406-0133

BATTALION TRAINING OFFICER

Course Number: PEC-T-BTO-X-XX.

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 1-2 weeks (46 hours).

Exhibit Dates: 3/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to prepare training outlines, prepare training and evaluation plans, insure career-path coordination with training objectives and evaluate training calendars.

Instruction: This course is performance-based, with exercises performed by students individually and in groups. Evaluation is accomplished through exercises and testing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in training and development (7/90).

AR-1406-0134

NATIONAL GUARD (ARNG) ADVANCED
RECRUITER AND SALES

Course Number: 501-F16 (ARNG).

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 2 weeks (79-83 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to function effectively as a recruiter by using knowledge, skills, and techniques relative to sales management.

Instruction: Lectures and in-class exercises in advanced sales management, increasing human effectiveness, and goal setting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in sales management (11/91).

AR-1406-0135

NONCOMMISSIONED OFFICER (NCO) IN CHARGE

Course Number: PEC-T-NCOIC-X-XX.

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 2 weeks (55-56 hours).

Exhibit Dates: 3/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to understand, discuss, and practice good management skills in the specific areas of listening, stress management, dynamic subordination, personnel evaluation, delegation, and the basic concepts of situational leadership.

Instruction: This course is performance-based, with individual and group exercises performed by the students. Evaluation is accomplished through exercises and testing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel supervision (7/90).

AR-1406-0136

TRAINING NONCOMMISSIONED OFFICER (NCO)

Course Number: PEC-T-TNCO-X-XX.

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 3 weeks (72 hours).

Exhibit Dates: 3/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to prepare training outlines, prepare training and evaluation

plans, insure career-path coordination with training objectives, identify proper resources needed to implement a training program, and set up physical requirements to accommodate training.

Instruction: Course is performance-based, with exercises performed by students individually and in groups. Evaluation is accomplished through exercises and testing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in training and development (7/90).

AR-1406-0137

BATTALION SUPPLY

Course Number: BSC-90: 90-BSC.

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 1-2 weeks (54 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to process or initiate reports associated with inventory of property, equipment and finance.

Instruction: Instruction strategies include proctored exercises, structured exercises, discussion and lecture. Content includes forms and procedures related to property, equipment, and finance.

Credit Recommendation: In the vocational certificate category, 1 semester hour in office personnel (7/90).

AR-1406-0138

BATTALION TRAINING ENLISTED

Course Number: PEC-T-BTE-X-XX.

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 2 weeks (46 hours).

Exhibit Dates: 3/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to prepare training outlines, training and evaluation plans, insure career-path coordination with training objectives, and evaluate training calendars.

Instruction: This course is performance based, with exercises performed by students individually and in groups. Evaluation is accomplished through exercises and testing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in training and development (7/90).

AR-1406-0139

NATIONAL GUARD (ARNG) RECRUITER AND SALES

Course Number: 501-00E20 (ARNG).

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 4 weeks (149 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to function effectively as a recruiter by using knowledge, skills, and techniques relative to sales management.

Instruction: Lecture and in-class exercises in stress management, interpersonal communications, market analysis, interviewing, and sales techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category,

gory, 3 semester hours in sales management (11/91).

Related Occupations: 00F.

AR-1406-0140

TURBINE ENGINE DRIVEN GENERATOR REPAIRER
BASIC NONCOMMISSIONED OFFICER (NCO)
COMMON CORE

Course Number: 690-52F30 (Phase 1).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 3-4 weeks (126-127 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage, supervise, and provide leadership.

Instruction: Academic lectures to provide concepts and processes in leadership doctrine to further improve leadership abilities, communications and management skills and the ability to instill discipline.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in the principles of supervision. See AR-1406-0090 for common core credit (12/90).

Related Occupations: 52F.

AR-1406-0141

POWER GENERATION EQUIPMENT REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)
COMMON CORE

Course Number: 662-52D30 (Phase 1).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 3-5 weeks (126-127 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage, supervise, and provide leadership.

Instruction: Academic lectures to provide concepts and processes in leadership doctrine to further improve leadership abilities, communication and management skills and the ability to instill discipline.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in the principles of supervision. See AR-1406-0090 for common core credit (10/91).

Related Occupations: 52D.

AR-1406-0142

SENIOR UTILITIES, QUARTERMASTER/CHEMICAL
EQUIPMENT REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)
COMMON CORE

Course Number: 690-52C30 (Phase 1).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 3-4 weeks (126-127 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage, supervise and provide leadership.

Instruction: Academic lectures to provide concepts and processes in leadership doctrine to further improve leadership abilities, communication and management skills, and the ability to instill discipline.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in the principles of super-

vision. See AR-1406-0090 for common core credit (12/90).

Related Occupations: 52C.

AR-1406-0143

UTILITIES EQUIPMENT REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 662-53C30 (Phase 1).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 4-5 weeks (170 hours).

Exhibit Dates: 10/91-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage, supervise, and provide leadership.

Instruction: Academic lectures to provide concepts and processes in leadership doctrine to further improve leadership abilities, communications and management skills, and the ability for instilling discipline.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of supervision. See AR-1406-0090 for common core credit (4/91).

Related Occupations: 53C.

AR-1406-0144

MANPOWER AND FORCE MANAGEMENT

Course Number: ALMC-MG.

Location: Army Logistics Management College, Satellite Education Program, Ft. Lee, VA; Army Logistics Management College, Ft. Lee, VA.

Length: 2 weeks (72-75 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to explain the manpower and force functions, explain the relationship between manpower management and other organizational systems, and apply manpower management techniques, principles, and procedures.

Instruction: Instruction includes lecture, discussion, exercises, and case studies. Topics include manpower requirement determinations; planning, programming, and budgeting; allocations; documentation; and analysis and evaluation.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in manpower management (6/91).

AR-1406-0147

PERSONNEL MANAGEMENT SPECIALIST

Course Number: Version 1: 500-75C10.
Version 2: 500-75C10.

Location: Soldier Support Center, Ft. Benjamin Harrison, IN.

Length: Version 1: 9-10 weeks (350-354 hours). Version 2: 10-11 weeks (371 hours).

Exhibit Dates: Version 1: 2/91-Present.
Version 2: 1/90-1/91.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to keyboard at the rate of 20 net words per minute on a five minute test; perform basic word processing functions in conjunction with personnel correspondence and documentation; and use accepted personnel procedures in the handling of records to include security and EEOC guidelines. Version 2: Upon completion of the course, the student will be able to keyboard at the rate of 20 net words per minute on a five

minute test and use accepted personnel procedures in the handling of records to include security and EEOC guidelines.

Instruction: Version 1: Lectures and practical exercises in keyboarding skills, basic word processing functions, record keeping, personnel procedures, and business correspondence. Version 2: Lectures and practical exercises in keyboarding skills, record keeping, personnel procedures, and business correspondence.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in keyboarding, 1 in record keeping, and 2 in basic word processing (12/91). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in keyboarding and 1 in record keeping (12/91).

Related Occupations: 75C.

AR-1406-0148

PERSONNEL MANAGEMENT SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 500-75C30.

Location: Adjutant General School, Ft. Benjamin Harrison, IN.

Length: 8-9 weeks (310 hours).

Exhibit Dates: 10/91-Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise and maintain personnel files, correspondence, and the processing of orders; operate computer equipment in order to edit, create directories, compose, and format personnel correspondence; evaluate personnel reports (files) and make appropriate recommendations.

Instruction: Lectures and practical exercises in the establishment and maintenance of personnel procedures including record keeping, record security, information processing, supervision and setting priorities.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in human resource management (12/91).

Related Occupations: 75C.

AR-1406-0149

PERSONNEL RECORDS SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 500-75D30.

Location: Adjutant General School, Ft. Benjamin Harrison, IN.

Length: 8-9 weeks (310 hours).

Exhibit Dates: 10/91-Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise and maintain personnel files, correspondence, and the processing of orders; operate computer equipment in order to edit, create directories, compose, and format personnel correspondence; evaluate personnel reports (files) and make appropriate recommendations.

Instruction: Lectures and practical exercises in the establishment and maintenance of personnel procedures including record keeping, record security, information processing, supervision and setting priorities.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in human resource management (12/91).

Related Occupations: 75D.

AR-1406-0150

PERSONNEL ACTIONS SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 500-75E30.

Location: Adjutant General School, Ft. Benjamin Harrison, IN.

Length: 8-9 weeks (310 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise and maintain personnel files, correspondence, and the processing of orders; operate computer equipment in order to edit, create directories, compose, and format personnel correspondence; evaluate personnel reports (files) and make appropriate recommendations.

Instruction: Lectures and practical exercises in the establishment and maintenance of personnel procedures including record keeping, record security, information processing, supervision and setting priorities.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in human resource management (12/91).

Related Occupations: 75E.

AR-1406-0151

MILITARY PERSONNEL TECHNICIAN WARRANT
OFFICER TECHNICAL/TACTICAL
CERTIFICATION

Course Number: 7C-420A.

Location: Soldier Support Center, Ft. Benjamin Harrison, IN.

Length: 4-5 weeks (167 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to apply military personnel principles, practices, and procedures.

Instruction: Lectures, discussions, videotapes, and seminar groups are the modes of instruction.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/91).

Related Occupations: 420A.

AR-1406-0152

MILITARY PERSONNEL TECHNICIAN WARRANT
OFFICER TECHNICAL AND TACTICAL
CERTIFICATION RESERVE COMPONENT
PHASE 2

Course Number: 7C-420A-RC.

Location: Soldier Support Center, Ft. Benjamin Harrison, IN.

Length: 2 weeks (79 hours).

Exhibit Dates: 3/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to apply military personnel principles, practices, and procedures.

Instruction: Lectures and practical exercises on the subject matter.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (12/91).

Related Occupations: 420A.

AR-1406-0153

PERSONNEL ADMINISTRATION SPECIALIST

Course Number: 500-75B10.

Location: Soldier Support Center, Ft. Benjamin Harrison, IN.

Length: 8 weeks (305 hours).

Exhibit Dates: 1/92–Present.

Learning Outcomes: Before 1/92 see AR-1406-0105. Upon completion of the course, the

student will be able to perform clerical duties including keyboarding, clerical procedures, and computer applications; keyboard at a minimum of 20 net words per minute on a five minute test; and perform basic computer operations as they apply to the preparation of office communications.

Instruction: Lectures and practical exercises on clerical procedures, keyboarding, and computer operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in keyboarding and 3 in clerical procedures (12/91).

Related Occupations: 75B.

AR-1406-0154

ADMINISTRATIVE SENIOR WARRANT OFFICER
RESERVE COMPONENT

Course Number: 7-12-C32-RC.

Location: Adjutant General School, Ft. Benjamin Harrison, IN.

Length: 2 weeks (91 hours).

Exhibit Dates: 3/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to apply supervisory and leadership skills at the mid-management level.

Instruction: Course includes lectures and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in leadership (12/91).

AR-1406-0156

RECRUITING AND RETENTION BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 501-OOR/OOE30.

Location: Recruiting and Retention School, Ft. Benjamin Harrison, IN.

Length: 3 weeks (112 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to apply leadership skills in a first-line position.

Instruction: Lectures and practical exercises on leadership and management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in leadership (12/91).

Related Occupations: OOE; OOR.

AR-1406-0157

RECRUITING OPERATIONS (S3)

Course Number: 7C-F36/501-F18.

Location: Recruiting and Retention School, Ft. Benjamin Harrison, IN.

Length: 2 weeks (71 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to complete all operational forms in a recruiting battalion and determine eligibility for enlistment.

Instruction: Lectures and case studies on the subject matter.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/91).

AR-1406-0158

RECRUITING AND RETENTION ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: 5-79-C42.

Location: Recruiting and Retention School, Ft. Benjamin Harrison, IN.

Length: 7-8 weeks (440 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to evaluate written communications for correctness; implement leadership/management strategies; evaluate recruiting action plans and make recommendations; apply appropriate sales techniques to recruiting; and employ effective interpersonal communication skills.

Instruction: Lectures, small-group role play and discussion of the topics above.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in salesmanship, 1 in interpersonal communications and 1 in human relations (12/91).

AR-1406-0159

RETENTION NONCOMMISSIONED OFFICER (NCO)

Course Number: 501-OOR30.

Location: Recruiting and Retention School, Ft. Benjamin Harrison, IN.

Length: 8-9 weeks (317 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to interpret personnel records; assist personnel in the reenlistment process; determine reenlistment or extension eligibility; prepare and present retention training; and conduct retention interview/counseling sessions.

Instruction: Methods include lectures, discussions, guest speakers, and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in interpersonal communications, 2 in salesmanship, and 1 in human relations (12/91).

Related Occupations: OOR.

AR-1406-0160

GUIDANCE COUNSELOR

Course Number: 501-ASIV7.

Location: Recruiting and Retention School, Ft. Benjamin Harrison, IN.

Length: 3 weeks (112-115 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to interview prospective enlistees; communicate effectively; determine eligibility; and prepare enlistment documents.

Instruction: Methods include lectures, discussions, and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in salesmanship and 1 in counseling techniques (12/91).

AR-1406-0161

NURSE RECRUITING

Course Number: 7C-F33/501-F17.

Location: Recruiting and Retention School, Ft. Benjamin Harrison, IN.

Length: 2 weeks (77 hours).

Exhibit Dates: 4/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to obtain leads in recruiting nurses; conduct interviews; determine eligibility; and process applicants.

Instruction: Methods of instructions include lecture, role play, practical exercise, and guest speakers.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in salesmanship (12/91).

AR-1406-0162

RECRUITING COMMANDER

Course Number: 7C-F13.

Location: Recruiting and Retention School, Ft. Benjamin Harrison, IN.

Length: 2-3 weeks (91-130 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide leadership in the recruitment mission, to include market analysis, sales techniques, and small and large group presentations; and evaluate recruiting results.

Instruction: Lectures, discussions, case studies, role play, videotapes and guest speakers.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in leadership, 2 in sales management, and 1 in interpersonal communications (12/91).

AR-1406-0163

STATION COMMANDER

Course Number: 501-F2.

Location: Recruiting and Retention School, Ft. Benjamin Harrison, IN.

Length: 3 weeks (114 hours).

Exhibit Dates: 10/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to apply leadership skills in a managerial position and supervise individuals responsible for conducting market analysis, sales interviews, counseling sessions, and other sales-related activities.

Instruction: Methods include role play and group exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in sales management (12/91).

AR-1406-0164

RESERVE RETENTION NONCOMMISSIONED OFFICER (NCO)

Course Number: 501-F13.

Location: Reserve Readiness Training Center, Ft. McCoy, WI.

Length: 2 weeks (70 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to evaluate raters/senior raters; conduct training of sales team; evaluate sales presentations; evaluate sales team; and conduct seminar training.

Instruction: Methods of instruction include lecture, discussion, videotape, and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel supervision (12/91).

AR-1406-0165

TRANSITION NONCOMMISSIONED OFFICER (NCO) (In-Service Recruiter/Retention Noncommissioned Officer (NCO))

Course Number: 501-F14.

Location: Recruiting and Retention School, Ft. Benjamin Harrison, IN.

Length: 2 weeks (75-81 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to process transition personnel using a particular software system.

Instruction: Methods of instruction include small group discussions, lectures, and practical exercises.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/91).

AR-1406-0166

RECRUITING FIRST SERGEANT

Course Number: 501-F7.

Location: Recruiting and Retention School, Ft. Benjamin Harrison, IN.

Length: 2 weeks (79-92 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to advise the recruiting company commander on recruiting; conduct interviews; determine eligibility of candidates; and process applications.

Instruction: Lectures, role playing, practical exercises, and guest speakers make up the teaching methods.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in salesmanship (12/91).

AR-1406-0167

FACULTY DEVELOPMENT

Course Number: ALMC-FF.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: 1-2 weeks (61-62 hours).

Exhibit Dates: 10/92-Present.

Learning Outcomes: Upon completion of the course, the student will be able to develop lesson plans; select appropriate evaluation and measurement instruments; present units of instruction using varied learning strategies and accompanying instructional aids; and apply appropriate classroom management procedures.

Instruction: Topics include development of learning objectives, methods of instruction, use of instructional aids, evaluation and measurement procedures, platform techniques, and design of lesson plans. Methodology includes lecture, panel and group discussions, as well as individual and group presentations and written exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in educational methods (8/95).

AR-1406-0168

AIR DEFENSE ARTILLERY ADVANCED NONCOMMISSIONED OFFICER (NCO)

Course Number: 0-16-C42.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 7-8 weeks (311-323 hours).

Exhibit Dates: 3/92-Present.

Learning Outcomes: Upon completion of the course, the student will be able to lead, train, and direct subordinates to maintain, oper-

ate, and employ weapons on the battlefield and to employ fighting techniques.

Instruction: Lectures and practical exercises on topics including maintenance procedures, weapon systems, firing positions and tactical maneuvering.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (8/95).

AR-1406-0169

ORIENTATION TO SYSTEMS APPROACH TO TRAINING

Course Number: 5K-I-4/520-F4.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 1 week (45 hours).

Exhibit Dates: 6/94-Present.

Learning Outcomes: Upon completion of the course, the student will be able to write a behavioral objective which is measurable; identify the characteristics of an adult learner; analyze the elements of a task; write examination based upon cognitive learning objectives; identify common methods for group instruction; design a performance test based upon standards, behaviors on conditions of the task; and develop a lesson plan.

Instruction: This course uses lecture and presentations to discuss information about developing the elements of a teaching plan. Adult learning theories are discussed. Strategies for writing behavioral objectives; examination items and a lesson plan are described. Group teaching techniques and performance based evaluation are discussed.

Credit Recommendation: In the graduate degree category, 2 semester hours in introduction to teaching/learning process (10/95).

AR-1407-0003

ADVANCED NONCOMMISSIONED OFFICER (NCO) MOS 71D/E

Course Number: 7-71-C42.

Location: Institute for Personnel and Resource Management, Ft. Benjamin Harrison, IN.

Length: 5-17 weeks (168-444 hours).

Exhibit Dates: 1/90-12/91.

Objectives: To provide selected personnel with advanced leadership skills, military subjects, and communication skills for effective supervision of specific MOS tracks.

Instruction: Lectures and practical exercises in a basic core including written and oral communication, management principles, unit training, and combat survival. MOS options are as follows: recruitment and reenlistment, equal opportunity, club management, legal topics, chaplain assisting, and data processing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in paralegal training. See AR-1404-0035 for common core credit (3/85).

Related Occupations: 71D/.

AR-1407-0004

ADVANCED NONCOMMISSIONED OFFICER (NCO) MOS 71C

Course Number: 7-71-C42.

Location: Institute for Personnel and Resource Management, Ft. Benjamin Harrison, IN.

Length: 5-17 weeks (168-444 hours).

Exhibit Dates: 1/90-9/91.

Objectives: To provide selected personnel with advanced leadership skills, military subjects, and communication skills for effective supervision of specific MOS tracks.

Instruction: Lectures and practical exercises in a basic core including written and oral communication, management principles, unit training, and combat survival. MOS options are as follows: recruitment and reenlistment, equal opportunity, club management, legal topics, chaplain assisting, and data processing.

Credit Recommendation: Credit is not recommended because of the limited content of the course (3/85).

Related Occupations: 71C.

AR-1407-0005

ADVANCED INTERNATIONAL MORSE CODE (IMC)

Course Number: 011-ASIA4 (CMF 18).

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 8 weeks (296 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to copy and send International Morse code at a speed of 13 five-letter code groups per minute.

Instruction: Instruction includes practice in receiving and sending International Morse code.

Credit Recommendation: In the vocational certificate category, 3 semester hours in Morse code techniques (12/88).

AR-1407-0006

COURT REPORTER NONCOMMISSIONED OFFICER (NCO) ADVANCED

Course Number: 512-71E40.

Location: Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 5 weeks (180 hours).

Exhibit Dates: 1/90–12/91.

Learning Outcomes: Upon completion of the course, the student will be able to describe various styles of leadership; use feedback to modify activities; evaluate progress; and apply counseling techniques.

Instruction: Methods of instruction include lecture and group discussion. Topics include leadership, motivation, counseling, communication and discipline.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (12/88).

Related Occupations: 71D.

AR-1407-0007

LEGAL SPECIALIST NONCOMMISSIONED OFFICER (NCO) ADVANCED

Course Number: 512-71D40.

Location: Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 5 weeks (180 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to describe various styles of leadership; use feedback to modify activities; evaluate progress; and apply counseling techniques.

Instruction: Methods of instruction include lecture and group discussion. Topics include leadership, motivation, counseling, communication and discipline.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (12/88).

Related Occupations: 71D.

AR-1407-0008

EXECUTIVE ADMINISTRATIVE ASSISTANT

Course Number: 511-71C10; 511-71C10/20.

Location: Adjutant General School, Ft. Benjamin Harrison, IN.

Length: 12 weeks (426–440 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to type, file, handle correspondence using good English grammar, transcribe, and be familiar with proper social protocol.

Instruction: Lectures and practical exercises in office administration, keyboarding, word processing, filing, correspondence, English grammar and usage, transcription, and social protocol.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in English composition, 3 in typing, 1 in word processing concepts, 1 in office procedures, and 3 in machine transcription (11/91).

Related Occupations: 71C.

AR-1407-0009

LEGAL SPECIALIST/ COURT REPORTER BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 512-71D/E30.

Location: Adjutant General School, Ft. Benjamin Harrison, IN; Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 5-7 weeks (193–286 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to review administrative separations, evaluate personal property claims, review courts martial, conduct legal research, and prepare files for disposal.

Instruction: Instruction includes lectures and class discussion on file preparation and disposal, legal research, administrative separations, court-martial documents, and personal property claims.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in legal research and 2 in a criminal justice elective (11/91).

Related Occupations: 71D; 71E.

AR-1408-0019

AIR DEFENSE ARTILLERY (ADA) OFFICER ADVANCED

Course Number: 2-44-C22.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 20–26 weeks (731–986 hours).

Exhibit Dates: 1/90–7/91.

Objectives: To train air defense artillery officers for command and staff duties in air defense battalions and brigades.

Instruction: Lectures and practical experience in automatic data processing introduction; flow charting; basic language programming; financial management systems; maintenance systems; quality assurance and control; nuclear, biological, and chemical weapons employment; Nike and Hawk air defense systems characteris-

tics and capabilities; air defense tactics; and elective in two of the following: automatic data processing, communicative arts, logistics management, electronics, or insurgent warfare. Lectures and discussions in effective communications, leadership, logistics, threat weapons and warfare, tactics, Patriot missile system, and either the Hawk or SHORAD missile system. Does not include the elective sequence, data processing, flow charting, or programming.

Credit Recommendation: Credit is not recommended due to the military-specific nature of the course (10/89).

AR-1408-0028

FIELD ARTILLERY OFFICER ADVANCED

Course Number: 2-6-C22.

Location: Air Defense Artillery School, Ft. Bliss, TX; Artillery and Missile School, Ft. Sill, OK.

Length: 20 weeks (710–720 hours).

Exhibit Dates: 1/90–3/94.

Objectives: After 3/94 see AR-1408-0213. To train field artillery officers for command and staff duties.

Instruction: Lectures and practical exercises in battle doctrine, artillery fire support, target acquisition, tactics, combined arms, technical writing, organizational communications, supervision, and data processing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing/word processing and 1 in technical writing (11/85); in the upper-division baccalaureate category, 2 semester hours in supervision (11/85).

AR-1408-0035

DEFENSE SPECIFICATION MANAGEMENT

Course Number: *Version 1:* PQM 103; ALM-34-0235. *Version 2:* 8D-F1.

Location: *Version 1:* Army Logistics Management College, Ft. Lee, VA. *Version 2:* Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: *Version 1:* 2 weeks (74 hours). *Version 2:* 2 weeks (69–71 hours).

Exhibit Dates: *Version 1:* 5/93–Present. *Version 2:* 1/90–4/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to apply procurement improvement tools to government and commercial procedures; use market research techniques to identify existing or create new item descriptions or documents to support acquisition. *Version 2:* To familiarize military and civilian personnel in the development, preparation, and use of specifications.

Instruction: *Version 1:* Lecture-conferences and practical exercises. Topics include fundamentals of specifications, requirements of specifications, specifications and procurement, quality assurance, preparation for delivery, and management practices. *Version 2:* Lecture-conferences and practical exercises. Topics include fundamentals of specifications, requirements of specifications, specifications and procurement, quality assurance, preparation for delivery, and management practices.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in procurement (5/96). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in procurement (5/96).

rate/associate degree category, 1 semester hour in procurement (9/90)

AR-1408-0056

COST ANALYSIS FOR DECISION MAKING

Course Number: ALMC CB

Location: Army Logistics Management College, Ft. Lee, VA; Army Logistics Management Center, Ft. Lee, VA

Length: 4 weeks (153-157 hours)

Exhibit Dates: 1/90-Present

Objectives: To train commissioned officers and civilian personnel in the theory and application of cost and economic analysis as applied to the development, acquisition and operation of Army weapons systems and facilities.

Instruction: Lectures, practical exercises and workshops in cost analysis theory and application. Includes regression analysis, learning curve theory, non-statistical estimating methods, uncertainty analysis, inflation theory and practice, design-to-cost, and development of cost estimating relationships.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in cost analysis (8/90); in the graduate degree category, 1 semester hour in cost analysis (8/90).

AR-1408-0063

AVIATION SENIOR WARRANT OFFICER TRAINING
(Aviation Warrant Officer Advanced)

Course Number: 2-1-C32

Location: Aviation Center, Ft. Rucker, AL

Length: 12 weeks (415 hours)

Exhibit Dates: 1/90-Present

Objectives: To prepare aviation officers to perform in a variety of unit aviation functions.

Instruction: Lectures and practical exercises in management, including general instruction in the principles, philosophies, concepts and scope of management; general instruction in aviation safety in both accident prevention and investigation; microcomputer terminology and programming with hands-on operating experience.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in communication skills and 3 in basic microcomputers (4/90); in the upper-division baccalaureate category, 3 semester hours in principles of management, 2 in aircraft safety, and 3 in interpersonal relations (4/90).

Related Occupations: 100C; 100D; 100E; 100F; 100G; 100P; 100Q; 100R; 100Z; 101B; 101C; 102A; 103A; 152B; 152C; 152D; 152F; 152G; 153A; 153B; 153C; 153D; 154A; 154B; 154C; 155A; 155D; 155E; 156A; 671B; 671C; 671D; 671E.

AR-1408-0067

MEDICAL LOGISTICS MANAGEMENT

Course Number: 8B-F20

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 10 weeks (356-431 hours)

Exhibit Dates: 1/90-1/92

Objectives: To provide officers with knowledge of concepts and tools of management logistics as related to Army hospitals and field medical units.

Instruction: Lectures and practical exercises in medical materials management, plan-

ning, programming, budgeting, basic computer concepts, and logistics.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in materials management (5/92)

AR-1408-0068

ARMY MEDICAL DEPARTMENT (AMEDD)

NONCOMMISSIONED OFFICER (NCO) BASIC

Course Number: 6-8-C40

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 8-9 weeks (262 hours)

Exhibit Dates: 1/90-9/91

Objectives: To provide enlisted personnel with the knowledge and skills required to perform administrative duties in the Army Medical Department.

Instruction: Conferences, demonstrations, and practical exercises in military correspondence, oral communications, supervisory management, and general military topics. Instruction includes resource management and problem solving techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in administration, 1 in interpersonal communication, and 1 in military science (8/79).

Related Occupations: 35G; 71G; 76J; 94F.

AR-1408-0072

MASTER WARRANT OFFICER

Course Number: 1-250-C8

Location: Aviation Center, Ft. Rucker, AL

Length: 8 weeks (288 hours)

Exhibit Dates: 1/90-Present

Objectives: To provide senior warrant officers with a working knowledge of subject matter essential to their careers in various duty assignments and to provide a background required for the progression of senior warrant officers into technical staff positions.

Instruction: Lectures and practical exercises in management, including general instruction in the principles, philosophies, concepts, scope of management, microcomputers, operating systems, programming, and hands-on operation. Includes 100 hours of non-resident training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in technical writing, 2 in interpersonal relations, and 1 in basic microcomputers (4/90); in the upper-division baccalaureate category, 3 semester hours in human resources management and 3 in management problems (4/90).

AR-1408-0075

DIRECTORATE OF LOGISTICS

(Directorate of Industrial Operations)

Course Number: ALM-61-0235; ALMC-DT

Location: Army Logistics Management College, Ft. Lee, VA.

Length: 3-4 weeks (100-143 hours)

Exhibit Dates: 1/90-Present

Objectives: To enable officer and civilian graduates to improve their management performance in various installation support activities.

Instruction: Lectures, practical exercises, and group discussions covering general management principles; financial management; and

management of support activities such as transportation, housing, supply, and facilities maintenance.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in general management (10/90)

AR-1408-0085

ADVANCED CONTROLLERSHIP SYMPOSIUM

Course Number: None

Location: Institute for Administration, Ft. Benjamin Harrison, IN.

Length: 1-2 weeks (65-67 hours)

Exhibit Dates: 1/90-12/91

Objectives: To broaden the professional development of commissioned officers and civilian personnel who are qualified comptrollers.

Instruction: Lectures and small group discussions of relevant military comptrollership policies and procedures including current issues, manpower management, budget, financial management and cost analysis.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in comptrollership (3/85).

AR-1408-0102

CURRENT ISSUES IN THE VETERINARY SERVICE

Course Number: 6-8-C8

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (79 hours)

Exhibit Dates: 1/90-12/93

Objectives: After 12/93 see AR-1408-0218. To provide Veterinary Corps officers with a review of policies, procedures, and programs with emphasis on problem areas and solutions.

Instruction: Conference, demonstration, and practical exercises in administration; food technology/science, surveillance inspection, and veterinary preventive medicine.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in management science (7/90).

AR-1408-0104

ARMY MEDICAL DEPARTMENT OFFICER (AMEDD)
BASIC UNIFORMED SERVICES UNIVERSITY
OF HEALTH SCIENCES

Course Number: 6-8-C20 (USUHS)

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 4 weeks (143-171 hours)

Exhibit Dates: 1/90-Present

Objectives: To provide basic orientation and training to student officers of the uniformed services university of health sciences to include knowledge of responsibilities and duties of an officer.

Instruction: Lectures, conferences, and practical exercises in health care administration, preventive medicine, and military science.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in military science, 1 in administration, 1 in preventive medicine (5/82).

AR-1408-0105

TOW/Dragon REPAIRER BASIC TECHNICAL (BT)

Course Number: 121-27E30

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 7-10 weeks (276-374 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to prepare a material condition status report; schedule activities which support maintenance actions; identify facts about alcohol and other drugs; solve problems associated with personnel problems or performance; and provide technical assistance to subordinates in equipment maintenance.

Instruction: Classroom and laboratory exercises in the activities and procedures which support unit maintenance actions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in organizational management (4/88).

Related Occupations: 27E.

AR-1408-0107

MAINTENANCE MANAGEMENT ADDITIONAL SPECIALTY

Course Number: XX91.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 10-11 weeks (362 hours).

Exhibit Dates: 1/90–9/90.

Objectives: To train officers to command maintenance units and to perform duties of a field maintenance staff officer.

Instruction: Course includes instruction in organizational supply and maintenance, automotive and support equipment fundamentals, supply operations, material acquisition, research and development and wholesale logistics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hours in automotive and related equipment fundamentals (2/84); in the upper-division baccalaureate category, 6 semester hours in maintenance management (2/84).

AR-1408-0108

ORDNANCE OFFICER ADVANCED

Course Number: 4-9-C22.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 26 weeks (847 hours).

Exhibit Dates: 1/90–2/94.

Objectives: To prepare officers to command maintenance units and to perform duties of a field maintenance staff officer.

Instruction: Lectures and practical exercises in leadership development and supervision, personnel management, professional ethics and values, training management, logistics and supply operation, financial management, budgets and records, stock accounting and procurement. Also, maintenance management including material and manpower utilization, introduction to military tactics, operations, and training.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in supervision, 3 in records management, 6 in maintenance management, and 1 in communications-writing (2/84).

AR-1408-0114

LOGISTICS PRECOMMAND

Course Number: ALMC-PD.

Location: Army Logistics Management Center, Ft. Lee, VA.

Length: 3 weeks (109-115 hours).

Exhibit Dates: 1/90–Present.

Objectives: To use problem indicators to recognize types and causes of management problems typical to specific types of organizations and to recognize analytical concepts applicable to the management of the organization's missions and resources.

Instruction: Lectures, seminars, field trips and guest speakers investigating manpower, management, civilian personnel management and labor relations, and Management systems organization.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in administrative management (11/89).

AR-1408-0116

INSTALLATION LOGISTICS MANAGEMENT

Course Number: ALMC-IN.

Location: Army Logistics Management Center, Ft. Lee, VA; Army Logistics Management College, Onsite at various locations.

Length: 2 weeks (66-67 hours).

Exhibit Dates: 1/90–9/90.

Objectives: To provide knowledge of the policies and procedures governing management of the logistics function at Army installations, to include supply, maintenance, transportation, and contracting.

Instruction: Lecture-conference and case method instruction in the various facets of management required for installation logistics management, including supply, transportation, maintenance, and procurement. NOTE: There are no quizzes, written exams or research papers required in this course. Students must present orally their solutions to a budgeting case. The course is graded pass-fail.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in logistics management (10/90).

AR-1408-0118

FORCE MODERNIZATION AND SUSTAINING (EQUIPPING THE FORCE)

(Force Modernization Management (Equipping the Force))

Course Number: ALMC-FG.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: 2-3 weeks (69-73 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide an understanding of the processes involved in the organizational interpretation of supportable equipment systems within the Department of the Army.

Instruction: Lectures and exercises on introduction to the modernization process, the resource management process, the materiel distribution and acquisition processes, and force development.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in resource planning (11/90).

AR-1408-0120

AUTOMATED INFORMATION SYSTEMS CONTRACTING (Defense Contracting for Information Resources)

Course Number: Version 1: CON 241. Version 2: ALMC-ZX; CON 241.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: Version 1: 1-2 weeks (61 hours). Version 2: 2 weeks (57-74 hours).

Exhibit Dates: Version 1: 4/93–Present. Version 2: 1/90–3/93.

Learning Outcomes: Version 1: To understand the impact of legislation and other congressional action on the acquisition of information resources and to apply correct decision making techniques for making such acquisitions. This version is pending evaluation. Version 2: To understand the impact of legislation and other congressional action on the acquisition of information resources and to apply correct decision making techniques for making such acquisitions.

Instruction: Version 1: This version is pending evaluation. Lectures and practical exercises providing detailed instructions in all significant aspects of contracting for informational resources. It is designed to provide a hand-on working familiarity with all pertinent government regulations, policies and procedures. Version 2: Lectures and practical exercises providing detailed instructions in all significant aspects of contracting for informational resources. It is designed to provide a hand-on working familiarity with all pertinent government regulations, policies and procedures.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the upper-division baccalaureate category, 2 semester hours in contracting management (information resources) (10/88).

AR-1408-0121

COMMERCIAL ACTIVITIES PROCESS

(Commercial Activities Review Process)

Course Number: ALMC-CM.

Location: Army Logistics Management College, Ft. Lee, VA; Army Logistics Management College, Onsite at various locations.

Length: 1-2 weeks (56-74 hours).

Exhibit Dates: 1/90–10/92.

Objectives: To provide instruction in preparing performance work statements and cost analyses of commercial activities and comparable military activities providing services to military installations.

Instruction: Lecture-conference and case method instruction in work measurement, writing of performance work statements, and comparative cost analyses of governmental versus commercial activity provision of services.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in managerial analysis (3/92).

AR-1408-0122

MATERIEL ACQUISITION MANAGEMENT

Course Number: Version 1: ALMC-ML. Version 2: ALMC-ML.

Location: Version 1: Army Logistics Management College, Ft. Lee, VA. Version 2: Army Logistics Management College, Ft. Lee, VA; Army Logistics Management Center, Ft. Lee, VA.

Length: Version 1: 8 weeks (307 hours). Version 2: 8-9 weeks (307-343 hours).

Exhibit Dates: *Version 1:* 6/93-Present
Version 2: 1/90-5/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will have a broad knowledge of the overall acquisition process; identify needs; manage the procurement process; determine requirements for the disposing of the materiel; and apply cost and budgeting techniques to contract negotiations. *Version 2:* Upon completion of the course, the student will have been provided with entry level training for personnel directly or indirectly involved with the Army's materiel acquisition process.

Instruction: *Version 1:* Lectures, case studies, exercises, and discussions in materiel acquisition management, including financial and cost management, integrated logistics support, force modernization, production management, and contract management. *Version 2:* Lectures, case studies, exercises, and discussions in materiel acquisition management, including financial and cost management, integrated logistics support, force modernization, production management, and contract management.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 1 semester hour in logistics management (8/95); in the graduate degree category, 1 semester hour in research and development, 2 in financial and cost management, and 2 in contract management (8/95). *Version 2:* In the upper-division baccalaureate category, 1 semester hour in logistics management (6/93); in the graduate degree category, 2 semester hours in contract management, 2 in financial/cost management, 1 in research and development management (6/93).

AR-1408-0123

PRE-COMMAND PHASE III COMBAT SERVICE
SUPPORT MISSILE AND MUNITIONS

Course Number: 9-26-F45.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 2 weeks (77 hours).

Exhibit Dates: 1/90-Present.

Objectives: To prepare missile and munitions command designees by providing update training on administration, supply, maintenance and training.

Instruction: Lectures and practical exercises in force development, supply procedures, readiness reporting, planographs, special weapons, materiel management and ammunition transportation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in material management (4/86).

AR-1408-0126

INSPECTOR GENERAL

Course Number: None.

Location: Inspector General School, Ft. Belvoir, VA.

Length: 2-6 weeks (76-188 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will understand fundamental inspector general policies and procedures and how to apply the functional life cycle model of the Army to operational inspections.

Instruction: Course covers policies and processes in performing inspections, general functions of administrative investigations, inspection and assistance. Students learn the functional life cycle of the Army as it applies to inspector general policies and processes. Student is provided with knowledge of the functions, operations, systems, policies, and command structure of the total Army, major commands and Army installations necessary to analyze potential problems and to conduct systemic inspections.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to internal organizational auditing. Credit is not recommended for those students attending only the reserve portion (the first two weeks) of the course (2/87).

AR-1408-0127

CHAPLAIN ASSISTANT ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: 661-71M40.

Location: Chaplain Center and School, Ft. Monmouth, NJ.

Length: 7 weeks (254 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to lead, supervise, manage, communicate effectively, prepare a religious activities program and budget, conduct training and maintenance activities, and manage the budget.

Instruction: Topics include advanced leadership and management skills, general military subjects, communication skills, training management, logistics management, and the unit ministry team in combat.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of supervision. See AR-1404-0035 for common core credit (6/90).

Related Occupations: 71M4.

AR-1408-0128

CHAPLAIN RESERVE COMPONENT GENERAL STAFF
COLLEGE

Course Number: 5G-F2.

Location: Chaplain Center and School, Ft. Monmouth, NJ.

Length: 6 weeks (216 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to serve as a high-level Chaplain Officer in a mobilization and combat environment, to assess management and leadership styles and principles, to demonstrate an understanding of the basic considerations involved in appropriated and non-appropriated fund support, to recommend procedures to be used during mobilization, and to develop training plans for a religious ministries team.

Instruction: Topics include writing skills, management, budgeting, tactical logistics, mobilization issues, strategic studies, and ministry in combat. Course includes simulation of a combat scenario, case studies, and integration paper, and a seminar; also includes a non-resident portion.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in report writing (6/90);

in the upper-division baccalaureate category, 3 semester hours in principles of management and 3 in business organization and management (6/90).

AR-1408-0129

CHAPLAIN TRAINING MANAGER

Course Number: 5G-AS17E.

Location: Chaplain Center and School, Ft. Monmouth, NJ.

Length: 2 weeks (77 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage a chaplain's training program at an Army installation, apply instructional methods, demonstrate knowledge of training resources, staff coordination, supervision evaluation, and management of training programs.

Instruction: Topics include short/near term planning and long-range planning for training programs, identifying training resources and personnel, records maintenance, development of training goals and objectives, and monitoring/evaluating training proficiency.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in training programs management (6/90).

AR-1408-0130

NONAPPROPRIATED CHAPLAINS' FUND CLERK

Course Number: 561-F2.

Location: Chaplain Center and School, Ft. Monmouth, NJ.

Length: 2 weeks (72 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to apply the principles of single-entry fund accounting and perform clerical duties.

Instruction: Topics include preparation of supporting documents, assisting in the preparation of annual budgets, performing bookkeeping functions with regard to receipt, disbursements, and control of nonappropriated funds.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in fund accounting (6/90).

AR-1408-0131

NONAPPROPRIATED CHAPLAINS' FUND CUSTODIAN

Course Number: 5G-F6/561-F1.

Location: Chaplain Center and School, Ft. Monmouth, NJ.

Length: 2 weeks (74 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to use management by objectives and accounting control techniques to effectively and efficiently perform the functions of custodian, supervisor, and accountant for the nonappropriated chaplain's fund.

Instruction: Topics include single-entry accounting, document organization and management, internal control and interface of non-appropriated funds, managing the receipt of funds, preparation and certification of fund reports, supervision of clerical activities associated with nonappropriated funds control.

Credit Recommendation: In the lower-division baccalaureate/associate degree cate-

gory, 1 semester hour in fund accounting and 1 in principles of management (6/90).

AR-1408-0132

ELECTRONIC WARFARE (EW)/INTERCEPT
EQUIPMENT REPAIR TECHNICIAN WARRANT
OFFICER TECHNICAL CERTIFICATION

Course Number: 4C-285A.

Location: Intelligence School, Ft. Devens, MA.

Length: 12-13 weeks (482 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to manage the operation, maintenance, and repair of computer-controlled equipment; operate, maintain, and repair computer-controlled equipment; program in BASIC and Assembler language; write diagnostic programs and use them to troubleshoot CPV's and peripherals; and employ the techniques of systems analysis to troubleshoot and repair computer-controlled systems.

Instruction: Lectures, tapes, demonstrations, written exams, and performance exercises in managing the operation, maintenance, and repair of computer-controlled systems; in programming in BASIC and Assembler language; in writing diagnostic programs and using them to troubleshoot and repair computer-controlled systems; and in developing and using systems analysis techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in maintenance management, 4 in peripherals maintenance and repair, 2 in BASIC programming, 2 in Assembler programming, 4 in microcomputer maintenance and repair or 4 in systems analysis and maintenance or 4 in computer system maintenance and repair (5/87).

AR-1408-0133

MORSE INTERCEPT TECHNICIAN WARRANT OFFICER
TECHNICAL/TACTICAL CERTIFICATION
PHASE 2

(Morse Intercept Technician Warrant Officer Technical Certification)

Course Number: 3B-984A; 3B-352H.

Location: Intelligence School, Ft. Devens, MA; Intelligence Center and School, Ft. Huachuca, AZ.

Length: 3-4 weeks (127-128 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage the application of Morse intercept and collection systems. This includes operation, coordination of systems, evaluation and analysis of morse intercept data.

Instruction: Instruction includes lecture, field trips and performance exercises in the management of the operation of Morse intercept systems including evaluation and analysis of Morse intercept data.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in operations management (6/91).

AR-1408-0134

NON-MORSE INTERCEPT TECHNICIAN WARRANT
OFFICER TECHNICAL CERTIFICATION

Course Number: 3B-352K; 3B-985A.

Location: Intelligence School, Ft. Devens, MA.

Length: 3-4 weeks (130 hours).

Exhibit Dates: 1/90-3/94.

Learning Outcomes: Upon completion of the course, the student will be able to manage the application of non-Morse intercept and collection systems. This includes operation, coordination of systems, evaluations and analysis of non-Morse intercept data.

Instruction: Instruction includes lectures, field trips and performance exercises in the management of the operation of non-Morse intercept systems including evaluation and analysis of non-Morse intercept data.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in operations management (5/87).

AR-1408-0135

EMITTER LOCATION/IDENTIFICATION TECHNICIAN
WARRANT OFFICER TECHNICAL
CERTIFICATION

Course Number: 3B-986A; 3B-352D.

Location: Intelligence School, Ft. Devens, MA; Intelligence Center and School, Ft. Huachuca, AZ.

Length: 3-5 weeks (112-179 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage the location, employment, control and operation of direction finding equipment, and set-up office procedures to process these activities.

Instruction: Instruction includes lectures, field trips and performance exercises in management of the location, employment, control and operation of direction finding systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in operations management (6/91).

AR-1408-0136

EMANATIONS ANALYSIS TECHNICIAN WARRANT
OFFICER TECHNICAL/TACTICAL
CERTIFICATION

Course Number: 3B-352J.

Location: Intelligence School, Ft. Devens, MA; Intelligence Center and School, Ft. Huachuca, AZ.

Length: 3-4 weeks (134 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise and conduct training programs for personnel assigned to electronic intelligence gathering units.

Instruction: Lectures, group interaction, and exercises in management and operation of intelligence units.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in operations management (6/91).

Related Occupations: 983A.

AR-1408-0137

TRAFFIC ANALYSIS TECHNICIAN WARRANT OFFICER
TECHNICAL/TACTICAL CERTIFICATION
PHASE 2

(Traffic Analysis Technician Warrant Officer Technical Certification)

Course Number: 3B-982A; Phase 2. 3B-352C.

Location: Intelligence School, Ft. Devens, MA; Intelligence Center and School, Ft. Huachuca, AZ.

Length: 5-6 weeks (197-211 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage intelligence collection/processing equipment; this includes operation, collection, processing, analysis, and evaluation of intelligence traffic.

Instruction: Lectures, field trips, and performance exercises in the management of the operation of intelligence collection and processing equipment including analysis and evaluation of intelligence traffic.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in operations management (6/91).

Related Occupations: 982A.

AR-1408-0138

VOICE INTERCEPT TECHNICIAN WARRANT OFFICER
TECHNICAL/TACTICAL CERTIFICATION
PHASE 2

(Voice Intercept Technician Warrant Officer Technical Certification)

Course Number: 3B-988A; Phase 2. 3B-352G.

Location: Intelligence School, Ft. Devens, MA; Intelligence Center and School, Ft. Huachuca, AZ.

Length: 3-6 weeks (134-222 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage the application of voice intercept and collection systems. This includes operation, coordination of systems, analysis and evaluation of voice intercept systems.

Instruction: Instruction includes lectures, field trips and performance exercises in the management of the operation of voice intercept systems including analysis and evaluation of voice intercept data.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in operations management (6/91).

AR-1408-0139

CHAPLAIN ASSISTANT BASIC NONCOMMISSIONED
OFFICER (NCO)

(Chapel Activities Specialist Basic Noncommissioned Officer (NCO))

Course Number: 561-71M20.

Location: Chaplain Center and School, Ft. Monmouth, NJ.

Length: 5 weeks (177 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to lead and organize small group activities involving maintenance, land navigation, training, tactical deployment equipment operation, computer hardware and software operations, and will account for appropriated funds, communicate effectively, and care for battle fatigue casualties.

Instruction: Topics include leadership, communications, battle fatigue casualty care, religious program management, volunteer management, computer hardware and software

operations, tactical deployment equipment operation, and tactical operations leadership skills.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in microcomputer applications. See AR 1406-0090 for common core credit (6/90).

Related Occupations: 71M

AR-1408-0140

CHAPLAIN OFFICER ADVANCED

Course Number: 5-16-C22

Location: Chaplain Center and School, Ft. Monmouth, NJ

Length: 20 weeks (710-820 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to perform administrative and ministerial duties in a large (up to 500 persons) military organization; duties include pastoral counseling, resolution of ethical and theological issues, fiscal management, and chaplain's tactical combat functions.

Instruction: Topics include leadership, ethics, management, pastoral counseling, fiscal management, combat and tactical functions, appropriated and non-appropriated funds, marriage and the family, theological issues, and homily preparation. The final two weeks of the course are dedicated to a study of a directed elective in one of the following fields: homiletics/liturgics, marriage and family pastoral counseling, and automated religious support.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in ethics and theological issues and 3 in organizational management; if completed the automated religious support elective, 1 in microcomputer applications (6/90); in the graduate degree category, 3 semester hours in homiletics and 3 in marriage and family counseling; if completed the homiletics/liturgics elective, 1 additional semester hour in homiletics; if completed the marriage and family pastoral counseling elective, 1 additional semester hour in marriage and family counseling (6/90).

AR-1408-0141

CHAPLAIN OFFICER BASIC

Course Number: 5-16-C20

Location: Chaplain Center and School, Ft. Monmouth, NJ

Length: 11-12 weeks (408 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of this course, the student will be able to perform pastoral counseling, administrative duties, and pastoral ministry duties in a military setting, demonstrate leadership, management, supervision, and ethics in conducting a battalion chaplain's duties, resolve pastoral problems, and show knowledge of internal controls of fund management.

Instruction: Topics include military and administrative skills, supervision skills, management, ethics, pastoral ministry in the military environment, pastoral counseling, internal controls, component training, and chaplain support activities.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of supervision (6/90); in the upper-division baccalaureate category, 1 semester hour in human relations, 2

in counseling, and 3 in principles of management (6/90).

Related Occupations: 56A

AR-1408-0142

ADVANCED NONCOMMISSIONED OFFICER (NCO) MOS 711

Course Number: 7-71-C42

Location: Institute for Personnel and Resource Management, Ft. Benjamin Harrison, IN

Length: 5-17 weeks (168-444 hours)

Exhibit Dates: 1/90-9/91

Objectives: To provide selected personnel with advanced leadership skills, military subjects, and communication skills for effective supervision of specific MOS tracks.

Instruction: Lectures and practical exercises in a basic core including written and oral communication, management principles, unit training, and combat survival. MOS options are as follows: recruitment and reenlistment, equal opportunity, club management, legal topics, chaplain assisting, and data processing.

Credit Recommendation: Credit is not recommended because of the limited content of the course (3/85).

Related Occupations: 71L

AR-1408-0144

ARMOR NONCOMMISSIONED OFFICER (NCO)

ADVANCED 19D

(19D Armor Noncommissioned Officer (NCO) Advanced)

Course Number: O-19-C42

Location: Armor Center and School, Ft. Knox, KY

Length: 14-15 weeks (614 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to provide leadership in a specialized field.

Instruction: Includes tactical training, especially in maintenance procedures, training methods and techniques, leadership skills, and staff support.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in basic surveying, 2 in communication skills, 3 in maintenance management, and 3 in personnel management (7/87).

AR-1408-0148

SERGEANTS MAJOR

Course Number: Version 1: 1-250-CS. Version 2: 1-250-CS. Version 3: 1-250-CS.

Location: Sergeants Major Academy, Ft. Bliss, TX

Length: Version 1: 40 weeks (1440 hours). Version 2: 22 weeks (729-730 hours). Version 3: 22 weeks (680-729 hours).

Exhibit Dates: Version 1: 9/95-Present. Version 2: 1/91-8/95. Version 3: 1/90-12/90.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to provide leadership and management to the upper-level national defense structure. Version 2: Upon completion of the course, the student will be able to provide leadership and management to the upper-level national defense structure. Version 3: Upon completion of the course, the student will be able to provide leadership

and management to the upper-level national defense structure.

Instruction: Version 1: Includes lectures, demonstrations, and performance exercises in planning, group interaction, human relations, leadership, idea synthesis, oral and written communication, introduction to research, public speaking, listening, introduction to health and physiology, community understanding, history, resource management, military training, geopolitics, international studies, ideologies, US foreign policy, conflict resolution, ethics, human motivation, small group communication, leadership theories, and management skills. Version 2: Includes lectures, demonstrations, and performance exercises in planning, group interaction, human relations, leadership, idea synthesis, oral and written communication, introduction to research, public speaking, listening, community understanding, history, resource management, military training, geopolitics, international studies, ideologies, US foreign policy, conflict resolution, ethics, human motivation, small group communication, leadership theories, and management skills. Version 3: Includes lectures, demonstrations, and performance exercises in planning, group interaction, human relations, leadership, idea synthesis, oral and written communication, public speaking, listening, community understanding, history, resource management, military training, geopolitics, international studies, ideologies, US foreign policy, conflict resolution, ethics, human motivation, small group communication, leadership theories and management skills.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in interpersonal communication, 2 in introduction to research, 1 in written communication, 1 in principles of supervision, 1 in public speaking, and 3 in health/physiology (6/95); in the upper-division baccalaureate category, 1 semester hour in ethics, 3 in human resource management, 6 in military science, and 1 in international relations (6/95). Version 2: In the lower-division baccalaureate/associate degree category, 1 semester hour in written communication, 3 in interpersonal communication, 2 in public speaking, 3 in principles of supervision, and 2 in introduction to research (6/95); in the upper-division baccalaureate category, 1 semester hour in ethics, 3 in military science, and 3 in international relations (6/95). Version 3: In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of supervision, 3 in group dynamics, and 3 in communication (1/91); in the upper-division baccalaureate category, 4 semester hours in military science, 4 in international relations, 1 in human resource management and 1 in ethics (1/91).

AR-1408-0149

1. SERGEANTS MAJOR NONRESIDENT
2. SERGEANTS MAJOR CORRESPONDING STUDIES (Sergeants Major Correspondence Studies)
3. SERGEANTS MAJOR CORRESPONDING STUDIES (Sergeants Major Correspondence Studies)

Course Number: Version 1: 1-250-CS (ACCP). Version 2: 1-250-CS (ACCP). Version 3: 1-250-CS (ACCP).

Location: Sergeants Major Academy, Ft. Bliss, TX

Length: Version 1: In residence, 2 weeks, maximum, 104 weeks. Version 2: Last 2 weeks

in residence, maximum, 104 weeks. *Version 3:* Last 2 weeks in residence, maximum, 104 weeks.

Exhibit Dates: *Version 1:* 12/94–Present. *Version 2:* 7/90–11/94. *Version 3:* 1/90–6/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to provide leadership and management to the upper-level national defense structure. *Version 2:* Upon completion of the course, the student will be able to provide leadership and management to the upper-level national defense structure. *Version 3:* Upon completion of the course, the student will be able to provide leadership and management to the upper-level national defense structure.

Instruction: *Version 1:* Primarily correspondence studies, plus two weeks residence training in planning, group interaction, human relations, oral and written communication skills, effective listening, history, resource management, military training, international studies, US foreign policy, conflict resolution, human motivation, small group dynamics, leadership theories, and management skills. *Version 2:* Primarily correspondence studies, plus two weeks residence training in planning, group interaction, human relations, oral and written communication skills, effective listening, history, resource management, military training, international studies, US foreign policy, conflict resolution, human motivation, small group dynamics, leadership theories, and management skills. *Version 3:* Primarily correspondence studies, plus two weeks residence training in planning, group interaction, human relations, oral and written communication skills, effective listening, history, resource management, military training, international studies, US foreign policy, conflict resolution, human motivation, small group dynamics, leadership theories, and management skills.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in public speaking, 1 in interpersonal communication, 1 in written communication, and 1 in principles of supervision (6/95); in the upper-division baccalaureate category, 4 semester hours in military science and 3 in international relations (6/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in communication, 2 in group dynamics (4/90); in the upper-division baccalaureate category, 4 semester hours in military science, 3 in international relations, and 1 in human resources management (4/90). *Version 3:* In the lower-division baccalaureate/associate degree category, 2 semester hours in group dynamics (4/90); in the upper-division baccalaureate category, 4 semester hours in military science, 3 in international relations, and 1 in human resource management (4/90).

AR-1408-0150

SENIOR OFFICER PREVENTIVE LOGISTICS
(Senior Officer Logistics Management)

Course Number: 8A-F23.

Location: Armor Center and School, Ft. Knox, KY.

Length: 2 weeks (80 hours); Track 2, 38 hours.

Exhibit Dates: 1/90–12/90.

Objectives: Upon completion of Track 1, the student will be able to perform management functions in the area of preventive logistics

with emphasis on supply, transportation, maintenance, procedures and Army concepts, publications, and records. Upon completion of Track 2, the student will be able to perform management functions in the area of preventive logistics with an emphasis on supply, transportation, and maintenance procedures.

Instruction: Track 1 is conducted through lectures, group discussions, and practical exercises including topics in policy review, records, accountability, and supply, transportation, maintenance procedures and inspection techniques and is conducted for Army officers; Track 2 is conducted through group discussions and practical exercises including topics in supply, transportation, maintenance procedures, and inspection techniques. This track is for Marine Corps, Air Force, Navy, and allied officers only.

Credit Recommendation: In the graduate degree category, for students completing Track 1, 3 semester hours in management systems; for students completing Track 2, 2 semester hours in management systems (7/87).

AR-1408-0152

ORDNANCE OFFICER MISSILE/MUNITIONS
ADDITIONAL SPECIALTY (ADSPEC)

Course Number: 4D-91C/D.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 11-12 weeks (408 hours).

Exhibit Dates: 1/90–9/90.

Learning Outcomes: Upon completion of the course, the student will be able to exhibit leadership techniques for logistics, warehousing, and storage of munitions and supplies; organize subjects for briefings, conferences and departmental meetings; organize and design a conference and lead the conference utilizing competent management techniques.

Instruction: Lectures, role playing, discussions, films and testing on materiel management, leadership, administration, and personnel.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in materiel management (4/88).

Related Occupations: 91C.

AR-1408-0153

ORDNANCE OFFICER ADVANCED MISSILE/
MUNITIONS MATERIEL MANAGEMENT

Course Number: 4-9-C22-91C/DD; 4-9-C22-91C/D.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 20 weeks (742 hours).

Exhibit Dates: 1/90–1/96.

Learning Outcomes: Upon completion of the course, the student will be able to exhibit leadership techniques for logistics, warehousing, and storage of munitions and supplies; organize subjects for briefings, conferences and departmental meetings; organize and design a conference and lead the conference utilizing competent management techniques; and manage materiel and munitions in mobilization, as well as peacetime.

Instruction: Lectures, role playing, discussions, films, and testing on materiel management, leadership, administration, and personnel. Also includes US/Soviet army organization, Warsaw Pact, ammunition issue and disposal, nuclear weapons, and missile support systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in materiel management (8/91).

Related Occupations: 91C.

AR-1408-0154

MEDICAL LOGISTICS MANAGEMENT RESERVE

Course Number: *Version 1:* 8B-F20-RC. *Version 2:* 8B-F20-RC.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 2 weeks (88 hours). *Version 2:* 2 weeks (78 hours).

Exhibit Dates: *Version 1:* 3/93–Present. *Version 2:* 1/90–2/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to administer procedures related to admission and disposition of patients in health care facilities; maintain medical records; and process medical information. *Version 2:* Upon completion of the course, the student will be able to apply concepts and tools of management logistics as related to Army hospitals and field medical units.

Instruction: *Version 1:* Course covers maintenance of medical records; medical statistical reporting; administrative support of patient movements and transfers; disability processing; and medical evaluation. *Version 2:* Lectures and practical exercises in medical materials management, planning, programming, budgeting, basic computer concepts, and logistics.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 1 semester hour in materials management (5/96). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in materials management (4/88).

AR-1408-0155

QUARTERMASTER OFFICER ADVANCED

Course Number: 8-10-C22.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 20 weeks (709-765 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage the logistics, military justice, administrative, and organizational functions in materiel and services, subsistence, and petroleum units.

Instruction: Lectures, conferences, practical exercises, and examinations in general management subjects including organizational supply, maintenance management, financial and acquisition management, materiel management, transportation, and automated systems and systems management. Other topics include military justice, military history, graves registration and combined arms. The course includes petroleum, materiel, and food tracks which are completed by all students.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to management science/quantitative methods (3/93); in the upper-division baccalaureate category, 3 semester hours in logistics management (3/93).

AR-1408-0156

AIRDROP SYSTEMS TECHNICIAN SENIOR WARRANT
OFFICER TRAINING (TECHNICAL/TACTICAL
CERTIFICATION)

Course Number: 8-10-C32-921A

Location: Quartermaster Center and School, Ft. Lee, VA

Length: 10 weeks (358-360 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will understand many general military subjects and will have sufficient knowledge in all phases of airdrop to supervise the technical aspects of an airdrop operation to include packing, rigging, maintenance, and record keeping.

Instruction: Includes classroom lectures and practical exercises in supervision, communication skills, general military subjects, and packing, rigging, planning and supervising an airdrop operation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in advanced cargo rigging (5/96); in the lower-division baccalaureate/associate degree category, 2 semester hours in business communications and 1 in principles of supervision (5/96).

AR-1408-0157

1. FOOD SERVICE TECHNICIAN WARRANT OFFICER
ADVANCED

(Food Service Technician Senior Warrant Officer)

(Quartermaster Senior Warrant Officer)

2. FOOD SERVICE TECHNICIAN SENIOR WARRANT OFFICER

(Quartermaster Senior Warrant Officer)

Course Number: Version 1: 8-10-C32-922A. Version 2: 8-10-C32-922A.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: Version 1: 10 weeks (359 hours). Version 2: 11 weeks (396 hours).

Exhibit Dates: Version 1: 10/92-Present. Version 2: 1/90-9/92.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to communicate effectively in writing and speech, understand organizational behavioral relationships, understand principles of government financial accounting and be able to manage the food service function of a large organization. Version 2: Upon completion of the course, the student will be able to give an effective speech, know the operation of microcomputer applications, understand organizational behavioral relationships, understand principles of government financial accounting (stock funds), and be able to manage the food service function of a large organization.

Instruction: Version 1: Lectures, class discussions, and practical exercises in effective speaking, computer applications, organizational behavior (leadership), government financial accounting (including stock funds), food service management, including nutrition. Version 2: Lectures, class discussions, and practical exercises in effective speaking, computer applications, organizational behavior (leadership), government financial accounting (including stock funds), food service management, including nutrition.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in business communication, 1 in organizational behavior (leadership), 1 in governmental financial management, and 2 in food service management (5/96). Version 2: In the vocational certificate category, 1 semester hour in analysis of food service opera-

tions (10/88) in the lower-division baccalaureate/associate degree category, 1 semester hour in microcomputer applications, 2 in business communications, 1 in organizational behavior, 1 in governmental financial accounting (10/88).

Related Occupations: 922A

AR-1408-0158

REPAIR PARTS TECHNICIAN SENIOR WARRANT OFFICER

Course Number: 8-10-C32-920B

Location: Quartermaster Center and School, Ft. Lee, VA

Length: 10-11 weeks (359-397 hours).

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will understand many general military subjects and have sufficient knowledge in all phases of logistics management including inventory control and reporting to supervise the technical aspects of such an operation.

Instruction: Primary classroom lectures with some practical exercises to prepare the student to function as a mid-level manager of a supply operation involving stock control, receipt and issue; and appropriate systems, automated and manual to monitor the operation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in business communications, 1 in principles of supervision, 3 in material management and/or logistics management (5/96).

AR-1408-0159

COMMAND SERGEANTS MAJOR

Course Number: CSM 206.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 1 week (40-75 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to function as a Command Sergeant Major or a Sergeant Major; interpret regulations in the context of existing policies; assist others in the management of drug and alcohol abuse programs; make judgments relating to family advocacy programs, evaluation of enlisted personnel, equal opportunity considerations, and the noncommissioned officer education system; demonstrate leadership through advising and consultation on matters of mission, policies, and available support services.

Instruction: A sequence of guest lecturer presentations, seminars, and conferences to provide an orientation to the role and functions of the Command Sergeant Major or Sergeant Major. Topics include military justice, drug and alcohol abuse prevention, personnel matters, support services, maintenance management, and training management. Designed for newly assigned or designated Sergeants Major, the orientation program consists of briefings from guest speakers and from instructors.

Credit Recommendation: Credit is not recommended because the nature of the program is a broad-based orientation and briefing (10/88).

AR-1408-0160

COMPANY COMMANDER AND FIRST SERGEANT
(Company Commander)

Course Number: CC205, CC205/F5202, CC/F525

Location: Combined Arms Training Center, Vilseck, W. Germany

Length: 1-2 weeks (46-86 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to function as a company commander or first sergeant; make command/leadership decisions based on subjects treated in the course; establish programs in areas of maintenance management, administration, training management, and supply management; provide guidance in matters of pay and allowances, military law, personnel reliability and safety; implement equal opportunities policies.

Instruction: Conference classes and guest speakers in selected military subjects, particularly in those programs of interest to commanders and leaders. Topics of concentration include maintenance management, training management, military law, safety, personnel and administration matters, and equal opportunity policies.

Credit Recommendation: Credit is not recommended because the course is a broad-based orientation and briefing (10/88).

AR-1408-0162

SPECIAL FORCES TECHNICIAN SENIOR WARRANT OFFICER

(Special Operations Technician Senior Warrant Officer)

Course Number: 2-33-C32.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 9-10 weeks (331-379 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform common tasks and special operation-specific tasks; demonstrate leadership and management in Special Operations Forces units and on Army and joint staffs.

Instruction: Lectures, discussions, and written projects in warrant officer common subjects (communication arts, military history, leadership and ethics, program management, force integration, employment and tactics of U.S. forces, logistics, and selected general subjects) and advanced special operations subjects (low-intensity conflicts, civil affairs, psychological operations, threat, and S-2/S-3 duties).

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management, 1 in psychology and 1 in leadership studies (12/92).

AR-1408-0163

ADVANCED SPECIAL OPERATIONS TECHNIQUES

Course Number: 2E-F141/011-F27; 011-F27.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 12-13 weeks (738-798 hours).

Exhibit Dates: 1/90-1/91.

Learning Outcomes: Upon completion of the course, the student will be able to employ advanced skills and techniques associated with defensive source nets in support of unconventional warfare, foreign internal defense, terrorism counteraction and strategic reconnaissance.

Instruction: Includes lectures, demonstrations, and performance exercises in instructional techniques necessary to train US and foreign personnel in advanced special operations intelligence activities. Includes the tactics and techniques employed in advanced areas of intelligence as they relate to special operations mission. Course places strong emphasis on practical application in both rural and urban environments.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management and 3 in principles of supervision (12/92).

AR-1408-0164

1. EXECUTIVE ADMINISTRATIVE ASSISTANT/
ADMINISTRATIVE SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)
2. ADMINISTRATIVE SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)
(71L30)

Course Number: *Version 1:* 510-71C/L30.
Version 2: 510-71L30.

Location: *Version 1:* Adjutant General School, Ft. Benjamin Harrison, IN. *Version 2:* Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: *Version 1:* 5 weeks (186 hours).
Version 2: 3-4 weeks (129 hours).

Exhibit Dates: *Version 1:* 10/91-Present.
Version 2: 1/90-9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to prepare business correspondence; maintain records; review publications for corrections; set up the computer, activate the system and prepare various documents. *Version 2:* Upon completion of the course, the student will be able to lead a squad or section, to train others to fight and survive on a battlefield, and to develop, maintain, and supervise maintenance activities and product accountability.

Instruction: *Version 1:* Lectures and appropriate applications. *Version 2:* Topics include leadership subjects, personal and performance counseling, training, document preparation, and verification.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in clerical procedures and 1 in computer applications (12/91). *Version 2:* Credit is recommended for the common core only. See AR-1406-0090 (12/88).

Related Occupations: 71L.

AR-1408-0165

PLANNING, PROGRAMMING, BUDGETING AND
EXECUTION SYSTEMS

Course Number: 7D-45A/B.

Location: Finance School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 1-2 weeks (61-66 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to explain the process of funds flow, discuss control functions, identify approval levels, describe the procurement appropriation process, and examine the program and budget cycle for security assistance.

Instruction: Methods of instruction include lectures, class discussions, and in-class exercises. Topics covered include budget planning

process, funds acquisition, cost analysis, internal controls, organization efficiency, and audit compliance.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in budgeting theory (4/90).

AR-1408-0166

FINANCE OFFICER BASIC

Course Number: 7-14-C20-44A.

Location: Finance School, Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 15-16 weeks (567 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise and lead, effectively communicate, and perform supervisory accounting functions.

Instruction: Lectures and structured exercises replicating practical situations in supervision, leadership, and oral and written communications. Financial aspects include budgeting, disbursements, documentation and fund accounting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of supervision, 1 as a communications elective, and 2 in governmental accounting (11/91).

Related Occupations: 44A.

AR-1408-0167

ADMINISTRATIVE SENIOR WARRANT OFFICER
ADVANCED

(Administrative Warrant Officer Advanced)

Course Number: 7-12-C32.

Location: Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 5-6 weeks (202 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage a medium-sized organization including personnel supervision, computer equipment and software utilization; and be able to provide leadership of military and civilian personnel.

Instruction: Lectures, practical exercises and discussion.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in leadership, 1 in introduction to microcomputers, and 2 in personnel supervision (12/91).

Related Occupations: C32.

AR-1408-0168

ADJUTANT GENERAL OFFICER ADVANCED

Course Number: 7-12-C22.

Location: Adjutant General School, Ft. Benjamin Harrison, IN.

Length: 20 weeks (710-756 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage the human resources function of a large organization.

Instruction: Classroom, practical exercises, and self-guided instruction in business communications, safety programs, training programs, leadership, motivation, performance management, classification systems, evaluation techniques, goal setting, budgeting, fund accounting, PPB systems, ethics, and American military history.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in business communications and 1 in American military history (11/91); in the upper-division baccalaureate category, 3 semester hours in principles of supervision, 3 in human resource management, and 1 in governmental accounting (11/91).

Related Occupations: C22.

AR-1408-0169

ADMINISTRATIVE SPECIALIST ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: 510-71L40.

Location: Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 7 weeks (251-260 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise and lead units of up to 400 persons.

Instruction: Instruction includes lectures and practical exercises in a core, including written and oral communication, management principles, unit training, and combat survival.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (11/91).

Related Occupations: 71L.

AR-1408-0170

TARGET ACQUISITION/SURVEILLANCE RADAR
REPAIRER BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: *Version 1:* 104-39C30.
Version 2: 104-39C30.

Location: Field Artillery School, Ft. Sill, OK.

Length: *Version 1:* 8 weeks (355 hours).
Version 2: 6-8 weeks (218-355 hours).

Exhibit Dates: *Version 1:* 1/92-Present.
Version 2: 1/90-12/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to provide supervisory functions and technical assistance regarding maintenance management, supply logistics support, and quality control for a target acquisition/surveillance radar system. *Version 2:* Upon completion of the course, the student will be able to perform technical assistance, maintenance management, and shop operation procedures in a communication electronics facility.

Instruction: *Version 1:* Lectures and practical exercises covering general maintenance management, supply logistics, and quality control procedures and practices. The student also studies the operation and maintenance of the target acquisition command/control system (TACC) and the associated computer, radar, rawinsonde and meteorological data system. *Version 2:* Training in the areas of supervisory functions for proper administration and operation of a communication electronics repair facility including maintenance management, supply procedures and quality control procedures, including diagnostic examination and awareness of future trends.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management. See AR-1406-0090 for common core credit (9/94). *Version 2:* In the lower-division baccalaureate/associate degree category, In the lower-division baccalaureate/associate degree

category, 2 semester hours in material management. See AR-1406-0090 for common core credit (1/92).

Related Occupations: 39C.

AR-1408-0171

UNIT ADMINISTRATION

Course Number: 100.

Location: Reserve Readiness Training Center, Ft. McCoy, WI.

Length: 2 weeks (102 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to prepare and administer financial procedures; define the organizational structure and chain of command; understand and track personnel management systems from selection through education, training, assignment, evaluation, and promotion; administer and process payroll systems including pay entitlements and incentive programs; apply the retention programs, including reenlistment, service obligations, participation requirements, and enforcement procedures.

Instruction: Lecture, discussion follow a pre-knowledge survey, a comprehensive performance examination is administered for each major topical unit.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in office administration or records and information management (7/89).

AR-1408-0172

UNIT MANAGER

Course Number: 400.

Location: Reserve Readiness Training Center, Ft. McCoy, WI.

Length: 2 weeks (85 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise civilian employees, write or change job descriptions for civilian employees; administer alcohol and drug abuse programs; manage work scheduling and leave administration including overtime and compensatory time within the Fair Labor Standards Act; recruit, interview and select personnel within Equal Employment Opportunity guidelines and write performance standards to be used in performance appraisals; manage personnel utilizing proper time management procedures, group decision making processes, stress management techniques and problems solving techniques; use automated systems applicable to unit management, determine the validity of data recorded for the units record of reserve training; and oversee training administrations and entitlements; utilize AGR (Army Guard and Reserve) assets; utilize FTUS (Fulltime Unit Status) model; fill vacancies and generate job descriptions for AGR soldiers; evaluate personnel; utilize the promotion, assignment/reassignment; cover development policies applicable to the AGR force and utilize the administrative and disciplinary options; record and use proper fund control in budget expenditures and utilize the Requirements Based Budgeting Concept as applied to unit management, force integration and manpower needs.

Instruction: Reading, lecture and discussion on role of the supervisor of civilian and military personnel, job classifications work scheduling, leave administration, recruitment and selection

of personnel, discipline administration, grievances and recognition of employees, Equal Employment Opportunity Standards, safety and occupational health, performance appraisal systems, resolution of work place conflicts, interpersonal relationships, utilization of motivational techniques and utilization of AGR assets; practical exercises and case studies in utilization of AGR assets, group decision making of problematic situations, leadership styles and task involvement of problem situations, evaluation plans and alternatives, validity of units record of reserve training, applicability of automated systems to unit management, readiness, grievances, employee recognition, discipline, Department of the Army guidelines and negotiated union contracts.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision (7/89).

AR-1408-0173

UNIT RECORDS ADMINISTRATION

Course Number: 1200.

Location: Reserve Readiness Training Center, Ft. McCoy, WI.

Length: 2 weeks (62 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to establish and maintain the various records required by a unit in the Army.

Instruction: Classroom lectures and discussions, workbook exercises, quizzes, final examination. Topics covered are application of the Freedom of Information Act and Privacy Act, establishment of a records system for a Army unit, health and dental records, automated personnel records, updates to the automated personnel data base, authorization documents, and personnel management activities accounted for by the automated personnel system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in records management (7/89).

AR-1408-0174

FIELD ARTILLERY OFFICER ADVANCED, RESERVE COMPONENT

Course Number: 2-6-C26.

Location: Field Artillery School, Ft. Sill, OK.

Length: 12 weeks (481 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to serve as a fire support officer, battery commander, and field artillery staff officer.

Instruction: Lectures, discussions, and practical exercises on battle doctrine, communications, tactics, fire support, targeting, weapons, and security. Topics include leadership, administration, report writing, procurement, supply accounting, map reading, and training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in leadership, 2 in personnel supervision, and 1 in technical writing (6/89).

AR-1408-0176

COLLECTION MANAGEMENT/TENCAPS OPERATIONS ASSIGNMENT SPECIFIC MODULE

Course Number: 3A-S13E/ASI9C/243-ASIT4

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 3 weeks (116 hours).

Exhibit Dates: 1/90–Present

Learning Outcomes: Upon completion of the course, the student will perform intelligence collection duties and manage a tactical exploitation of national capabilities operation.

Instruction: Lectures and practical exercises on the analysis of all sources of intelligence collection requirements, reconnaissance, and surveillance; determining the availability and capability of collection resources; implementing collection procedures; evaluating intelligence reports; updating collection plans to include space intelligence collection activities.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in planning and operations management (6/90).

AR-1408-0177

MILITARY INTELLIGENCE OFFICER BASIC

Course Number: Version 1: 3-30-C20-35D. Version 2: 3-30-C20-35D.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: Version 1: 23-24 weeks (915-922 hours). Version 2: 23-24 weeks (915-922 hours).

Exhibit Dates: Version 1: 1/93–Present. Version 2: 1/90–12/92.

Learning Outcomes: Version 1: Upon completion of the course, the student will have the skills in leadership, personnel management, security, and communication to command a military intelligence platoon. Version 2: Upon completion of the course, the student will have the skills in leadership, personnel management, security, and communication to command a military intelligence platoon.

Instruction: Version 1: Instruction includes lectures and practical exercises in writing effectiveness, organization and planning, leadership and personnel management, maintenance, security, supply, signal interpretation, signal theory, Soviet, North Korean, and Warsaw Pact capabilities, and NATO capabilities. Version 2: Instruction includes lectures and practical exercises in writing effectiveness, organization and planning, leadership and personnel management, maintenance, security, supply, signal interpretation, signal theory, Soviet, North Korean, and Warsaw Pact capabilities, and NATO capabilities.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of physical security and 1 in business writing (1/92); in the upper-division baccalaureate category, 1 in political science (areas of geopolitical struggle with emphasis on East/West Europe), 3 in human resource management, and 3 in principles of organization and management (1/92).

AR-1408-0180

CHAPLAIN OFFICER ADVANCED RESERVE COMPONENT

Course Number: 5-16-C23.

Location: Chaplain Center and School, Ft. Monmouth, NJ.

Length: 18 weeks (681 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform administrative and ministerial duties in a large (up to 500 persons) military organization; duties include pastoral counseling, resolution of ethical and theological issues, fiscal management, and chaplain's tactical combat functions.

Instruction: Topics include leadership, ethics, management, pastoral counseling, fiscal management, combat and tactical functions, appropriated and non-appropriated funds, marriage and the family, theological issues, and homily preparation.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in ethics and theological issues and 3 in organizational management (6/90); in the graduate degree category, 3 semester hours in homiletics and 3 in marriage and family counseling (6/90).

AR-1408-0182

ADMINISTRATIVE OFFICER

Course Number: PEC-P-A03.

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.
Length: 2 weeks (64 hours).

Exhibit Dates: 3/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform, and supervise others in the performance of basic administration and personnel actions with an emphasis on the review of military personnel forms.

Instruction: Lecture and in class exercises designed to prepare the student to supervise the preparation of forms addressing administrative, financial, and information management actions, as well as retention and fitness concerns.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in administrative management (7/90).

AR-1408-0183

NATIONAL GUARD (ARNG) RECRUITING AND RETENTION DETACHMENT COMMANDER

Course Number: FC-F21 (ARNG).

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.
Length: 2 weeks (77 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to engage in market evaluation and need satisfaction selling, develop a sales team, and conduct recruiter training programs. Course provides the student with technical expertise and interactive skills which effectively direct and influence the performance of individual recruiters.

Instruction: Lecture and in-class exercises in areas of time management, team building, human and material resource management, sales management, and personality measurement techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in general management (7/90).

AR-1408-0184

GUIDANCE COUNSELOR

Course Number: 501 ASIV7 (ARNG).

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 2 weeks (75 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide guidance to personnel on retention opportunities.

Instruction: Structural exercises, lecture, discussion are the instructional strategies. Content topics are recruitment, retention, and processing information related to personnel.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/90).

AR-1408-0185

NATIONAL GUARD (ARNG) RECRUITING FIELD SALES MANAGER

Course Number: 501-F31 (ARNG).

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.
Length: 2 weeks (80 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to effectively use and develop skills in time management; sales team development; interpersonal management skills; identifying and remedying causes of stress; and using self-awareness studies (Meyers-Briggs) to improve communication and motivational strengths and techniques.

Instruction: This course is performance-based with many exercises, usually performed on an individual basis. Extensive use of materials developed privately as well as in the ARNG. Evaluation of exercises and material occurs throughout the course.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in sales management (7/90).

AR-1408-0186

ARMY INSTALLATION MANAGEMENT

Course Number: 1B-F1.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: 3 weeks (107-122 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage an installations staff, utilizing new techniques affecting support operations, and to avoid or solve common problems. Graduate will serve in a key position, managing the garrison as a community, and will formulate strategies for putting action plans into operation.

Instruction: Instruction includes guest speakers, small group instruction and lecture conferences with topics such as garrison operations, resource management, budget and finance, labor relations, and other installation management issues.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in organization and management (8/95).

AR-1408-0187

PURCHASING FUNDAMENTALS
(Small Purchase Fundamentals)
(Defense Small Purchase Basic)

Course Number: ALMC-B3; PUR 101.

Location: Army Logistics Management College, Onsite at various locations; Army Logis-

tics Management College, Satellite Education Program, Ft. Lee, VA; Army Logistics Management College, Ft. Lee, VA.

Length: 2 weeks (76-79 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to define and discuss policies and procedures for standards of conduct and examples of improper business practices; explain the source and regulatory guidance for small purchase acquisition within the DOD; determine the authority of the contracting officer and buyer to make awards; identify and use mandatory sources of supply or services; maintain small purchase files; determine that elements required for a valid purchase request are present; list requirements for maintaining source lists; explain competition and market research; employ the most appropriate small purchase method; identify the applicable clauses and/or provisions; employ the appropriate solicitation method and complete the solicitation phase; handle quotations; amend or cancel RFQs; utilize price analysis techniques; demonstrate the procedures used in placing blanket purchase agreements; identify small purchase categories; and explain post award functions including contractor's failure to perform.

Instruction: Methods of instruction include critique, demonstration, lecture conferences, practical exercises, reading, and examinations. Topics include small purchase policies and procedures, pre-solicitation phase, solicitation phase, evaluation phase, award methods, special small purchase categories, and administration phase.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in basic purchasing (11/93).

AR-1408-0188

EXECUTIVE SMALL PURCHASE
(Defense Small Purchase Advanced)

Course Number: ALMC-B4; PUR 301.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: 1-2 weeks (62-63 hours).

Exhibit Dates: 9/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform as a procurement agent within DOD, handle complex purchase requests (under \$25 thousand), evaluate small purchase quotations, conduct negotiations for small purchases, and handle all aspects of small purchases (not to exceed \$25,000).

Instruction: Using lecture-conference and practical exercise, the course will cover all phases of small purchase procurement including analyzing bid quotations, conducting negotiations, and determining the criteria for technical evaluation.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in purchasing (6/91).

AR-1408-0189

CONTRACTING OFFICER'S REPRESENTATIVE

Course Number: ALMC-CL.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Satellite Education

Program, Ft. Lee, VA; Army Logistics Management College, Ft. Lee, VA.

Length: 2 weeks (65 hours).

Exhibit Dates: 1/90-8/90.

Learning Outcomes: Upon completion of the course, the student will be able to describe the process and the requirements of planning, awarding, and administering service contracts; apply managerial tools and techniques in monitoring contract performance; and exercise the authority, assume the responsibility, and carry out the activities of a contracting officer's representative.

Instruction: Instruction includes lecture, cases, and exercises related to pre-award and award considerations of service, contracts, writing and interpreting work statements, and post-award functions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in business communications/contract writing (6/91).

AR-1408-0190

MANAGEMENT OF INSTALLATION LEVEL CONTRACTS

Course Number: ALMC-IB.

Location: Army Logistics Management College, Onsite at various locations; Army Logistics Management College, Ft. Lee, VA.

Length: 2 weeks (66-73 hours).

Exhibit Dates: 1/90-9/93.

Learning Outcomes: Upon completion of the course, the student will be able to explain the team concept of contract management; make sound pre-award decisions in terms of organizational needs, governmental regulations, and ethical considerations; and identify DOD policies, contract law provisions, and legislative act that directly affect the contracting officer/team.

Instruction: Lectures, practical exercises, and case studies in contract negotiations and administration for services on installations.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in contract law, 1 semester hour in contract administration (6/91).

AR-1408-0191

INTEGRATED ITEM MANAGER'S

Course Number: ALMC-IF.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: 4 weeks (154-155 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to apply catalogue data (inventory management codes and numbers) in the daily material management functions; forecast requirements based on data analysis and future projection of need and allocation of funds; use available systems in making sound and logical materiel decisions; and calculate and project materiel depot maintenance (repair/overhaul) programs.

Instruction: Lectures and practical exercises providing instruction on the integrated material management functions as they relate to the management of secondary and major items. Subjects covered include the entire life cycle of the materiel systems, with emphasis placed on wholesale requirement computation, forecasting, and financial management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category,

3 semester hours in materiel management (10/92).

AR-1408-0192

DEFENSE CONTRACTING FOR INFORMATION RESOURCE

Course Number: ALMC-ZX.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: 1-2 weeks (70-71 hours).

Exhibit Dates: 4/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to interpret the impact of DoD directives, federal regulations, and legislation on the acquisition of information resources; identify the difference in contracting for information resources compared to other resources/services; and implement all stages of contracting for information resources.

Instruction: Instruction includes lecture, discussions, exercises and case studies covering topics including pre-acquisition planning, acquisition plan development, pre-solicitation, solicitation development, evaluation, award, and performance evaluation of information resources contract.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in contract management (6/91).

AR-1408-0193

MARINE WARRANT OFFICER ADVANCED
(Marine Warrant Officer Senior Warrant Officer)

Course Number: 8-55-C32-880A/881A.

Location: Transportation School, Ft. Eustis, VA.

Length: 6 weeks (216-274 hours).

Exhibit Dates: 10/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to understand the laws governing weapons, treatment of captives, civilian rights of prisoners of war, reporting of criminal acts, development of spread sheets and data bases, preparing written course assignments, preparing personnel evaluations and recommendations for awards, managing and counseling civilian personnel in aspects of federal employment, being familiar with electronic navigation and points of entry for Army vessels, acting as liaison with harbor-master and marine engineering officer.

Instruction: Lectures, examinations, and practical exercises on laws, drugs, weapons, Warsaw Pact, electronic warfare, computer literacy, military and civilian personnel standards, customs, reports, management, marine safety, and military writing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 1 in computer literacy (13/94).

Related Occupations: 880A; 881A.

AR-1408-0194

INTELLIGENCE/ELECTRONIC WARFARE (EW)
EQUIPMENT TECHNICIAN WARRANT
OFFICER TECHNICAL/TACTICAL
CERTIFICATION PHASE 2

Course Number: 4C-353A.

Location: Intelligence School, Ft. Devens, MA; Intelligence Center and School, Ft. Huachuca, AZ.

Length: 10 weeks (357 hours).

Exhibit Dates: 10/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to initiate, operate, and manage an industrial maintenance, safety, and quality program, and a logistic and supply organization that supports the operation and repair of computer-controlled equipment including software maintenance.

Instruction: Lectures, demonstrations, and classroom interaction on operations, supply, maintenance, safety and quality systems that support computer-based enterprises including software support.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial management, safety, and maintenance (6/91).

AR-1408-0196

ORDNANCE MISSILE MATERIAL MANAGEMENT
(PHASE 1 AND 3)

Course Number: 093-AOC-91C-RC.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 2 weeks (88 hours); 2 weeks (87 hours).

Exhibit Dates: 6/90-1/96.

Learning Outcomes: Upon completion of the course, the student will be able to plan, resource, conduct and evaluate training in materiel handling assignments (phase 1), and manage directing movements; provide in transit visibility, authorization levels and requisition assets; and understand automated accounting and material management (phase 3).

Instruction: Phase 1: Includes lecture, role playing, discussion and practical exercises in missile material management. Phase 3: Includes lecture and practical exercises in material management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of management for phase 1, and 1 semester hour in material management for phase 3 (8/91).

AR-1408-0197

ORDNANCE MUNITIONS MATERIAL MANAGEMENT
(PHASE 1 AND 3)

Course Number: 093-AOC-91D-RC.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: Phase 1, 2 weeks (106 hours); Phase 1, 2 weeks (76 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course, the student will be able to plan, resource, conduct and evaluate training in materiel handling assignments (phase 1), and manage directing movements; provide in transit visibility, authorization levels and requisition assets; understand automated accounting and material management (phase 3).

Instruction: Phase 1: Includes lecture, role playing and discussions and practical exercises in munitions material management. Phase 3: Includes lecture and practical exercises in material management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of management for phase 1, and 1 in material management for phase 3 (8/91).

AR-1408-0198

AMMUNITION TECHNICIAN SENIOR WARRANT
OFFICER RESERVE (PHASE 1 AND 2)

Course Number: 4-9-C32-910A-RC.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: Phase I, 2 weeks (100 hours); Phase II, 2 weeks (80 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide effective leadership and management; understand the fundamentals of electronic warfare; describe maintenance reporting procedure; and process missile and rocket ammunition reports.

Instruction: Lectures and practical exercises, including field experience in communication skills, effective leadership, military justice, battle doctrine, electronic warfare, maintenance management, history file manipulation, system administrator procedures, and new developments in ammunition.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in field experience in management (8/91).

AR-1408-0199

DEFENSE SMALL PURCHASE BASIC BY
CORRESPONDENCE

Course Number: ALMC-B3.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: Maximum, 52 weeks.

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to define and discuss policies and procedures for standards of conduct and examples of improper business practices; explain the source and regulatory guidance for small purchase acquisition within the DOD; determine the authority of the contracting officer and buyer to make awards; identify and use mandatory sources of supply or services; maintain small purchase files; determine that elements required for a valid purchase request are present; list requirements for maintaining source lists; explain competition and market research; employ the most appropriate small purchase method; identify the applicable clauses and/or provisions; employ the appropriate solicitation method and complete the solicitation phase; handle quotations, amend or cancel RFQs; utilize price analysis techniques; demonstrate the procedures used in placing blanket purchase agreements; identify small purchase categories; and explain post award functions including contractor's failure to perform.

Instruction: Topics include small purchase policies and procedures, pre-solicitation phase, solicitation phase, evaluation phase, award methods, special small purchase categories, and administration phase.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in basic purchasing (6/91).

AR-1408-0200

ADJUTANT GENERAL OFFICER BASIC

Course Number: 7-12-C20-42A.

Location: Adjutant General School, Ft. Benjamin Harrison, IN.

Length: 13 weeks (564 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to write administrative memos, letters and reports; supervise personnel activities including classification, record keeping, career development, awards, and transition; and understand operational and supervisory aspects of personnel administration systems.

Instruction: Lectures and practical exercises on the subjects above.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in records management, 2 in office administration, 3 in business communications, and 3 in personnel supervision (12/91).

AR-1408-0201

ADJUTANT GENERAL OFFICER ADVANCED
(COMPANY COMMAND MODULE) RESERVE
COMPONENT PHASE I

Course Number: 7-12-C23.

Location: Adjutant General School, Ft. Benjamin Harrison, IN.

Length: 2 weeks (89 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to serve as a company commander and understand the unique environment of the battlefield.

Instruction: Lectures and practical exercises give a broad overview of a military environment.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/91).

AR-1408-0202

ENGINEER PRE-COMMAND

Course Number: 2G-F27.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 1-2 weeks (94 hours).

Exhibit Dates: 8/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to lead an engineering unit; organize and deliver training programs; manage maintenance policies and procedures; and manage personnel.

Instruction: Lectures and practical exercises on the above topics.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in organizational management (1/93).

AR-1408-0203

ARMY MEDICAL DEPARTMENT (AMEDD)
NONCOMMISSIONED OFFICER (NCO) BASIC

Course Number: *Version 1:* 6-8-C40. *Version 2:* 6-8-C40.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 7 weeks (300 hours). *Version 2:* 5 weeks (188 hours).

Exhibit Dates: *Version 1:* 4/95–Present. *Version 2:* 10/91–3/95.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to lead a military unit in accomplishing its goals, including performance review and counseling, supervision and delegation, drills and training, and specific military skills. *Version 2:* Upon completion of the course, the student will be able to lead a military unit in accomplishing its

goals, including performance review and counseling, supervision and delegation, drills and training, and specific military skills.

Instruction: *Version 1:* The course covers military leadership; personal and performance counseling; duties and responsibilities of non-commissioned officers; leadership assessment and development; leading procedures and combat orders; combat leadership; physical training; marksmanship; property accountability; individual and team training; small group process; and specific military skills. The methodologies include lecture, discussion, group work, and practical application. *Version 2:* The course covers military leadership; personal and performance counseling; duties and responsibilities of non-commissioned officers; leadership assessment and development; leading procedures and combat orders; combat leadership; physical training; marksmanship; property accountability; individual and team training; small group process; and specific military skills. The methodologies include lecture, discussion, group work, and practical application.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in military science for the common element. For those in the medical equipment repairer basic track, 1 semester hour of elective credit in basic medical equipment repair. For those in the optical laboratory specialist track, 1 semester hour of elective credit in optical laboratory. For those in the patient administration track, 1 semester hour of elective credit in patient administration. For those in the practical nurse track, 1 semester hour of elective credit in practical nursing. For those in the operating room specialist track, 1 semester hour of elective credit in operating room. For those in the psychiatric specialist track, 1 semester hour of elective credit in psychiatric specialist. For those in the behavioral science track, 1 semester hour of elective credit in behavioral science. For those in the radiology track, 1 semester hour of elective credit in radiology. For those in the pharmacy specialist track, 1 semester hour of elective credit in pharmacy. For those in the preventive medicine specialist track, 1 semester hour of elective credit in preventive medicine. For those in the respiratory specialist track, 1 semester hour of elective credit in respiratory specialty. For those in the medical supply specialist basic track, 1 semester hour of elective credit in medical supply. For those in the medicine specialist track, 1 semester hour of elective credit in medical specialty. For those in the dental specialist track, 1 semester hour of elective credit in basic medical equipment repair. For those in the medical laboratory specialist track, 1 semester hour of elective credit in medical laboratory. For those in the hospital food service specialist track, 1 semester hour of elective credit in hospital food service. For those in the veterinary food inspector specialist track, 1 semester hour of elective credit in veterinary food inspection. And for those in the animal care specialist track, 1 semester hour of elective credit in animal care specialty. See AR-1406-0090 for common core credit (10/95). *Version 2:* In the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (8/93); in the upper-division baccalaureate category, 2 semester hours in military science (8/93).

AR-1408-0204**MEDICAL LOGISTICS MANAGEMENT****Course Number:** 8B-F20**Location:** Academy of Health Sciences, Ft Sam Houston, TX**Length:** 10 weeks (378-380 hours)**Exhibit Dates:** 6/92–Present

Learning Outcomes: Upon completion of the course, the student will be able to practice the principles and techniques of the logistical management of patient services in a health care facility; process patients from admission to discharge; maintain records; process medical information; conduct medical care evaluations; and prepare medical statistical reports.

Instruction: Lectures and practical exercises in medical materials management, planning, programming, budgeting, basic computer concepts, and logistics.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in materials management (5/96).

AR-1408-0205
EMANATIONS ANALYSIS TECHNICIAN WARRANT OFFICER TECHNICAL/TACTICAL CERTIFICATION (WOTTC) - RC, PHASES 2 AND 3
Course Number: 3B-352J-RC.**Location:** Intelligence School, Ft. Devens, MA.**Length:** 3-4 weeks (134 hours).**Exhibit Dates:** 1/90–3/94.

Learning Outcomes: Upon completion of the course, the student will be able to supervise and conduct training programs for personnel assigned to electronic intelligence gathering units.

Instruction: Lectures, group interaction, and exercises in management and operation of intelligence units.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in operations management (6/91).

Related Occupations: 983A.**AR-1408-0206**
VOICE INTERCEPT TECHNICIAN WARRANT OFFICER TECHNICAL/TACTICAL CERTIFICATION (WOTTC) - RC PHASES 2 AND 3
Course Number: 3B-352G-RC.**Location:** Intelligence School, Ft. Devens, MA.**Length:** 3-6 weeks (134-222 hours).**Exhibit Dates:** 1/90–3/94.

Learning Outcomes: Upon completion of the course, the student will be able to manage the application of voice intercept and collection systems. This includes operation, coordination of systems, analysis and evaluation of voice intercept systems.

Instruction: Instruction includes lectures, field trips and performance exercises in the management of the operation of voice intercept systems including analysis and evaluation of voice intercept data.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in operations management (6/91).

AR-1408-0207
INTELLIGENCE ELECTRONIC WARFARE EQUIPMENT TECHNICIAN WARRANT OFFICER TECHNICAL/TACTICAL CERTIFICATION (RESERVE COMPONENT) PHASES 2 AND 3
Course Number: 4C-353A.**Location:** Intelligence School, Ft. Huachuca, AZ**Length:** 4 weeks (202 hours)**Exhibit Dates:** 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to initiate, manage, and operate electronic warfare intercept systems to include diagnostic troubleshooting, system management, and logistic support. Student will be familiar with logistic and supply policies, procedures, and with the operation and repair of computer controlled equipment.

Instruction: The course is divided into three phases: Phase 1 is nonresident instruction; Phase 2 (101 hours) and Phase 3 (101 hours) require active duty training time at the intelligence center. Lectures, demonstrations, and classroom computer-driven simulations develop capabilities in the management and operations of service/repair centers. Credit is based on resident phases.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in service center management (10/93); in the upper-division baccalaureate category, 3 semester hours in operations management (10/93).

AR-1408-0208**COLLECTION MANAGEMENT OPERATIONS****Course Number:** 3A-SI3E/ASI9C/243-ASIT4.**Location:** Intelligence School, Ft. Huachuca, AZ.**Length:** 3 weeks (110 hours).**Exhibit Dates:** 6/92–Present.

Learning Outcomes: Upon completion of the course, the student will be familiar with intelligence-gathering means available to the armed forces, including tactical and strategic sources, and be able to formulate management plans for organizing the collection of intelligence to meet military objectives.

Instruction: Lectures and practical exercises in the collection and management of intelligence from a variety of sources to meet various military conflict situations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/93).

AR-1408-0209**SIGNAL OFFICER BASIC****Course Number:** 4-11-C20.**Location:** Signal School, Ft. Gordon, GA.**Length:** 23-24 weeks (983 hours).**Exhibit Dates:** 10/92–Present.

Learning Outcomes: Before 10/92 see AR-1404-0006. Upon completion of the course, the student will be able to plan and manage communications interface for microwave and troposcatter-based combat net radio in support of the Army Tactical Command and Control System.

Instruction: Instruction in leadership functions, personnel and operations management, technician electronics, computer usage, supply operations and military subjects.

Credit Recommendation: In the vocational certificate category, 3 semester hours in basic electricity and 3 in basic electronics (2/94); in the lower-division baccalaureate/associate degree category, 1 semester hour in computer literacy and 3 in business organization and management (2/94).

AR-1408-0210**SIGNAL OFFICER (BRANCH QUALIFICATION)****Course Number:** 4-11-C20 (BQ).**Location:** Signal School, Ft. Gordon, GA.**Length:** 10 weeks (380 hours).**Exhibit Dates:** 10/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage the personnel who operate various types of communications equipment and plan the associated tactics and doctrine.

Instruction: The course employs lectures, demonstrations, and practical laboratory exercises. The main topics covered include information technology, COMSEC manager functions, combat net radio, area common user systems, and signal officer indoctrination.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in field service management (2/94).

AR-1408-0211
AVIATION LIFE SUPPORT EQUIPMENT TECHNICIAN (AIsET), RESERVE COMPONENT
Course Number: 2C-F51/4D-ASIH2/552-ASIQ2-RC.**Location:** Reserve training centers, US.**Length:** 92 hours.**Exhibit Dates:** 6/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide support on aviation life support equipment to include logistics, maintenance, preventive maintenance, and repair.

Instruction: Lectures and practical application which will cover preventive maintenance and repair, performance of maintenance, and will provide logistics support.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in logistics, 1 in medical equipment repair technician (3/94).

AR-1408-0212**AVIATION LIFE SUPPORT EQUIPMENT TECHNICIAN****Course Number:** 2C-F51/4D-ASIH2/600-ASIQ2.**Location:** Transportation School, Ft. Eustis, VA.**Length:** 5-6 weeks (196 hours).**Exhibit Dates:** 10/91–Present.

Learning Outcomes: Before 10/91 see AR-1704-0008. Upon completion of the course, the student will be able to provide support on aviation life support equipment including survival equipment, and will have the skills for maintenance, preventive maintenance, and repair.

Instruction: Lectures and practical application cover logistics and publications; and testing, maintenance, and repair of life support equipment and survival equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in logistics and 2 in medical equipment repair technician (3/94).

AR-1408-0213

FIELD ARTILLERY OFFICER ADVANCED

Course Number: 2-6-C22.**Location:** Field Artillery School, Ft. Sill, OK.**Length:** 20 weeks (766 hours).**Exhibit Dates:** 4/94–Present.

Learning Outcomes: Before 4/94 see AR-1408-0028. Upon completion of the course, the student will be able to perform the duties of the battery commander, or as a staff officer at battalion/brigade level, or as a fire support officer at a higher headquarters level; the student will be able to make decisions or recommend courses of action relating to combat support, threat forces and doctrine, use of fire support systems, and combined arms operations; the student will utilize concepts, doctrine, and tactics in decision-making, in performing missions and in supervising subordinates. **NOTE:** Students must have already completed the officer basic course or officer branch qualifying course.

Instruction: Lectures, conferences, practical exercises, and field exercises in battle doctrine, tactics, combined arms, fire support for battle, automated and manual fire support systems; includes concepts and procedures for survey, for target acquisition (radar), for ballistics and for battle orders; maintenance, supply, communications systems and safety procedures are included, along with technical writing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in data analysis, 2 in technical writing and 1 word processing (9/94); in the upper-division baccalaureate category, 3 semester hours in management problems (9/94).

AR-1408-0215

COMBINED LOGISTICS OFFICER ADVANCED, PHASES 1 AND 3

Course Number: Phase 3, 8-10-C22 (LOG) P3; Phase 1, 8-10-C22 (LOG) P1.**Location:** Army Logistics Management College, Ft. Lee, VA.**Length:** Phase 1, 7-258 weeks (286 hours); Phase 3, 8-276 weeks (288 hours).**Exhibit Dates:** 6/92–Present.

Learning Outcomes: Upon completion of phase 1, the student will be able to plan the phases of a military organization with emphasis on preparation for eventual staff positions; apply newly developed communications skills, personnel management techniques, training skills, and professional administrative skills to improve leadership qualities. Upon completion of phase 3, students will be able to apply the skills necessary to implement the operational planning functions of logistics management for large scale activity and identify and define logistics functions.

Instruction: Lecture-type instruction includes leadership and personnel functions, unit maintenance and supply, military organizations, and history. In phase 1, emphasis is placed on communication skills. In phase 3, the instruction is of a capstone mode, where training for other phases is integrated. (Phase 2 is branch specific, conducted at the designated school.) A concluding model exercise is developed and presented, utilizing the techniques, principles, and procedures acquired in the course.

Credit Recommendation: In the graduate degree category, 3 semester hours in management for phase 1 and 3 semester hours in management for phase 3 (8/95).

AR-1408-0216

INSTALLATION LOGISTICS MANAGEMENT

Course Number: ALMC-IN.**Location:** Army Logistics Management College, Onsite at various locations.**Length:** 2 weeks (67-68 hours).**Exhibit Dates:** 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to improve the efficiency and effectiveness of installation procedures for materiel and equipment.

Instruction: Lecture-conference and case method instruction in the various facets of management required for installation logistics management, including supply, transportation, maintenance, and procurement. **NOTE:** There are no quizzes, written exams or research papers required in this course. Students must present orally their solutions to a budgeting case. The course is graded pass-fail.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in logistics management (8/95).

AR-1408-0217

AIR DEFENSE ARTILLERY OFFICER ADVANCED

Course Number: 2-44-C22.**Location:** Air Defense Artillery School, Ft. Bliss, TX.**Length:** 20 weeks (744-800 hours).**Exhibit Dates:** 8/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage and administer army air defense operational units, including the areas of supply, logistics, personnel/human factors, and Army air defense weapon systems and tactics.

Instruction: Lectures and practical exercises covering written and oral communications, leadership training management, staff organization and procedures, supply and logistic systems, personnel problems and management, and specific Army air defense weapon systems and tactics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in written and oral communications (8/95).

AR-1408-0218

CURRENT ISSUES IN THE VETERINARY SERVICE

Course Number: 6-8-C8.**Location:** Academy of Health Sciences, Ft. Sam Houston, TX.**Length:** 2 weeks (86 hours).**Exhibit Dates:** 1/94–Present.

Learning Outcomes: Before 1/94 see AR-1408-0102. Upon completion of the course, the student will be expected to express with understanding the mission of the Veterinary Corp; discuss current issues and policies in animal care and treatment; discuss current issues and policies in food safety, quality and inspection; and evaluate all aspects of a veterinary service program.

Instruction: Conference, demonstration, and practical exercises in administration; food technology/science, surveillance inspection, and veterinary preventive medicine.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in current issues in veterinary science (10/95).

AR-1408-0219

HEALTH SERVICES HUMAN RESOURCES MANAGER

Course Number: 6H-70F67.**Location:** Academy of Health Sciences, Ft. Sam Houston, TX.**Length:** 4 weeks (173 hours).**Exhibit Dates:** 11/94–Present.

Learning Outcomes: Upon completion of the course, the student will be able to effectively function as a health service personnel manager in any AMEDD unit.

Instruction: Methods of instruction include class-room lectures, with an addition of 7 non-academic hours, making a total of 180 hours. Attendees participate in role playing, participating in special projects as applied to topic under discussion. Topics refer to evaluation, organization of military officers, record keeping, promotion and discharge procedures, processing personnel actions and correspondence, principles of management as applied to civilian/military personnel, and medical structure organizations, with impact of current and future AMEDD structure modules. Description of scope identifies wartime environment, but outline reflects peacetime only.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in health science management (10/95).

AR-1408-0220

COMBINED LOGISTIC OFFICER ADVANCED, PHASE 2

Course Number: 6-8-C22 (CLOAC).**Location:** Academy of Health Sciences, Ft. Sam Houston, TX.**Length:** 5 weeks (188 hours).**Exhibit Dates:** 10/94–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify situation appropriate preventive medicine strategies; discuss alternative systems in the delivery of health care; apply concepts and principles of combat health support; provide instruction on veterinary TOE teams; provide instruction on hearing conservation and nutrition; and discuss multidisciplinary health roles and programs.

Instruction: Lecture and practice simulation are used to assist the learner in applying principles of preventive medicine and combat health support. Alternative health care delivery systems are discussed as are multidisciplinary roles and programs.

Credit Recommendation: In the graduate degree category, 4 semester hours in health services administration (10/95).

AR-1408-0221

MEDICAL MANAGEMENT OF CHEMICAL AND BIOLOGICAL CASUALTIES

Course Number: 6H-F26.**Location:** Army Research Institute for Chemical Defense, Aberdeen Proving Ground, MD; Army Medical Research Institute of Infectious Disease, Ft. Detrick, MD.**Length:** 1-2 weeks (51 hours).**Exhibit Dates:** 3/94–Present.

Learning Outcomes: Upon completion of the course, the student will be able to recognize patients who have been exposed to chemical or biological agents; decontaminate and/or treat patients who have been exposed to chemical or biological agents; and protect him/herself from contamination by chemical or biological agents.

Instruction: Methods include lecture, discussion, and practical experience. Topics include biological and chemical warfare agents. Diagnosis, treatment, decontamination, and protection from biological and chemical agents.

Credit Recommendation: In the upper division baccalaureate category, 3 semester hours in medical management of chemical and biological casualties (10/95).

AR-1409-0011

EMITTER LOCATOR/IDENTIFIER

(Electronic Warfare (EW)/Signal Intelligence (SIGINT) Emitter Identifier/ Locator)

Course Number: *Version 1:* 231-98D10. *Version 2:* 231-05D10; 231-98D10.

Location: *Version 1:* Intelligence School, Ft. Huachuca, AZ. *Version 2:* Intelligence School, Ft. Devens, MA.

Length: *Version 1:* 8 weeks (290 hours). *Version 2:* 18-28 weeks (644-859 hours).

Exhibit Dates: *Version 1:* 1/92–Present. *Version 2:* 1/90–12/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to send and receive international Morse code at 18 groups per minute (GPM); operate and troubleshoot radio teletype equipment; and type at 20 words per minute without error. *Version 2:* Upon completion of the course, the student will be able to send and receive international Morse code, install, operate and troubleshoot radio teletype equipment and type at 20 words per minute.

Instruction: *Version 1:* Instruction includes lecture, computer aided instruction based performance exercises in code copying and transcription, typing proficiency, deployment, installation, and operation of a direction finding system, and proper equipment inspection and maintenance procedures, performing fix analysis, and preparing performance reports. *Version 2:* Instruction includes lecture, computer aided instruction based performance exercises in code copying and transcription, typing proficiency, deployment, installation, and operation of a direction finding system, and proper equipment inspection and maintenance procedures.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in Morse code (10/93); in the lower-division baccalaureate/associate degree category, 2 hours in keyboarding (10/93). *Version 2:* In the vocational certificate category, 3 semester hours in Morse code (10/90); in the lower-division baccalaureate/associate degree category, 2 hours in typing (10/90).

Related Occupations: 05D; 98D.

AR-1409-0012

ELECTRONIC WARFARE (EW)/SIGNAL INTELLIGENCE (SIGINT) MORSE INTERCEPTOR

Course Number: 231-05H10.

Location: Intelligence School, Ft. Devens, MA.

Length: 21-23 weeks (678-829 hours).

Exhibit Dates: 1/90–3/94

Learning Outcomes: Upon completion of the course, the student will be able to copy Morse code, detect, acquire, identify, and record foreign communications; type 25 words per minute; do basic word processing; and evaluate incoming signals.

Instruction: Instruction includes lecture, performance exercises to test typing proficiency, copying Morse code, ability to operate equipment, and procedures required to generate required data.

Credit Recommendation: In the vocational certificate category, 3 semester hours in Morse code (1/88); in the lower-division baccalaureate/associate degree category, 2 semester hours in beginning typing (1/88).

AR-1511-0012

CIVIL AFFAIRS ENLISTED

Course Number: 500-SQID.

Location: Institute for Military Assistance, Ft. Bragg, NC.

Length: 2 weeks (70-80 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to carry out a wide range of civilian-related practical activities, including awareness of psychological effects of military action; prepare documents affecting public health, evacuees and refugees; and be sensitive to effects of cultural differences and difficulties of cross-cultural communication.

Instruction: Course consists of exercises and lectures involving role playing sessions in a wide range of civil affairs subject matter: public health, refugees, and psychological and cross-cultural problems. Student may also prepare an area study.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in public administration (12/92).

AR-1511-0013

SENIOR NONCOMMISSIONED OFFICER (NCO) OPERATIONS AND INTELLIGENCE

Course Number: 243-F11.

Location: Sergeants Major Academy, Ft. Bliss, TX; McGraw Barracks, Munich, W. Germany.

Length: 10 weeks (347 hours).

Exhibit Dates: 1/90–4/92.

Learning Outcomes: Upon completion of the course, the student will be able to supervise operations and intelligence sections.

Instruction: Includes lectures, seminars, demonstrations, and practical exercises in battlefield tactics, military procedures, military doctrine, world situations, and military potential.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in military science and 1 in international relations (9/87).

AR-1511-0014

1. CIVIL AFFAIRS OFFICER ADVANCED NONRESIDENT/RESIDENT, RESERVE COMPONENT PHASE 2

(Civil Affairs Officer Advanced Nonresident/ Resident Reserve Component)

2. CIVIL AFFAIRS OFFICER ADVANCED NONRESIDENT/RESIDENT RESERVE COMPONENT

Course Number: *Version 1:* 5-41-C23. *Version 2:* 5-41-C23.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: *Version 1:* Phase 2, 2 weeks (70 hours). *Version 2:* Phase 2, 2 weeks (66-69 hours). Phase 4, 2 weeks (69-70 hours).

Exhibit Dates: *Version 1:* 10/93–Present. *Version 2:* 1/90–9/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to serve as a civil affairs officer, conduct an assessment of civil affairs needs; and advise the commander of local economic, social, and political factors affecting a military occupied community; plan and recommend actions for control of dislocated civilians; and serve as a liaison between the local community and military command. *Version 2:* Upon completion of the course, the student will serve as civil affairs officer; advise the commander as to the establishment/administration of local civilian government; communicate the psychological and cultural effects of unintended offending actions; analyze the cost of proper programs; cite the danger of terrorist activities; control civilian-refugee problems; preserve art, documents, and cultural treasures in conditions of military conflict.

Instruction: *Version 1:* Lectures, seminars, students' oral presentations, and individual research papers; team area-study papers on planning of civil affairs activities in psychological and cross-cultural analysis; economic considerations; civil-military operations; sociology; low intensity conflict and terrorism; civil affairs and air land battle; and legal considerations. *Version 2:* Lectures, seminars, students' oral presentations, and individual research papers, team area-study papers planning of civil affairs activities in psychological and cross-cultural analysis, economic considerations, civil-military operations, sociology, low intensity conflict and terrorism, civil affairs and air land battle, and legal considerations.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 1 semester hour in international relations and 3 in public administration planning (3/96). *Version 2:* In the upper-division baccalaureate category, for phase II, 3 semester hours in international relations or public administration. For phase IV, in the upper-division baccalaureate category, 3 additional semester hours in international relations or public administration (10/90).

AR-1511-0016

CIVIL AFFAIRS

Course Number: 5D-F6/500-F4.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 5-6 weeks (205 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to interpret Communist strategy, analyze effects of military operations on civilian and political affairs; understand how the Army structure deals with these questions; handle effects of civilian dislocation; and recognize and deal with low-intensity conflict.

Instruction: Lectures, seminars, preparation of a country study paper, and simulations of field situations. Topics include civil-military history, psychological operations, air/land battle, economic considerations, cultural and reli-

gious impacts, sociology, and legal considerations.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in public administration and 3 in sociology (12/88).

AR-1511-0018

SPECIAL OPERATIONS RECONNAISSANCE
(Strategic Reconnaissance)

Course Number: 2E-F66/011-F25.

Location: John E. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 8 weeks (469-503 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to construct antennas, perform elementary maintenance, and operate special field portable radio sets; identify and treat various medical ailments with little or no supplies or medications; recognize and treat effects of combat stress; recognize and report on Soviet Order of Battle Intelligence; identify Soviet military equipment and weapon systems; apply proper evasive techniques; use field photographic equipment.

Instruction: Includes lectures and hands-on training in basic and field radio set-up and operation, Warsaw Pact order of battle, weapon systems, minor medical emergencies and sustainment procedures, use of laser acquisition and beacon devices, evasive techniques for human and attack/sentry dogs, and proper use of field photographic equipment.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in Soviet studies (12/88).

AR-1511-0019

SPECIAL FORCES OPERATIONS AND INTELLIGENCE
RESIDENT/NONRESIDENT PHASE 4

Course Number: 244-ASIF1-RC.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 2 weeks (135-149 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform intelligence functions in support of Special Forces missions; analyze Soviet military organization; and conduct clandestine operations.

Instruction: Lectures, seminars, special conferences on intelligence, written reports, and oral presentations on aspects of Soviet military organization and conduct of intelligence operations by US forces.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in communications (12/88); in the upper-division baccalaureate category, 2 semester hours in Soviet studies, 1 in psychology, and 1 in political science (12/88).

AR-1511-0020

SPECIAL FORCES OPERATIONS AND INTELLIGENCE
RESIDENT/NONRESIDENT PHASE 2

Course Number: 244-ASIF1-RC.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 2 weeks (128-137 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to support Special Forces missions; coordinate air/ground/

nautical missions; analyze maps; and support air land battle.

Instruction: Lectures, seminars, simulation, and discussion on Special Forces operations, map interpretation, role of Special Forces in air land battle, aspects of Army organization, and terrorism.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in map interpretation (12/88); in the upper-division baccalaureate category, 1 semester hour in political science, 1 in psychology, and 1 in social science (12/88).

AR-1511-0021

ARMY WAR COLLEGE

Course Number: None.

Location: Army War College, Carlisle Barracks, PA.

Length: 44 weeks.

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will have an understanding of the science of warfare in the area of national security studies, strategy, force planning, and international relations, in order to prepare officers for higher command positions. Students will develop an understanding of the process by which national strategy is formulated, including meeting changing threats to national security. This course is designed to train senior military officers in leadership and management of a large, complex organization. Students will demonstrate heightened awareness of personal values, strengths, and leadership styles; the development of an ethical framework for reasoning and value judgment; the development of creative skills for leadership in a complex organization; an understanding of historical perspectives as they relate to operational and organizational perspectives; and an understanding of budgeting and human resources management as well as program planning.

Instruction: Course is presented through lectures, seminars, reading and writing, simulation exercises, oral presentations, field trips, case studies, self-assessment techniques, audiovisual presentations, and computer exercises. Individual group work is supported by extensive library access. There is a large resident faculty supplemented by distinguished guest speakers and by field trips. There is a good faculty-student ratio, and there are several group projects. Topics include ethics, leadership, joint services operations, science of military warfare including implementation at the regional and global levels and its application to future warfare, human resources techniques, budgeting techniques, professionalism, self assessment techniques, American military history, theory of war, international relations, and American foreign policy.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in international economics, 3 in political science, 3 in human resource management, and 3 in geography (7/94); in the graduate degree category, 6 semester hours in management, 3-6 for the research paper, based on the receiving institution's review of the paper, 3 in national security studies, 2 in American military history, 1 in international politics, and 3 in American foreign relations. Students will take up to eight individually selected advanced courses in national security policy and strategy, regional

studies, operations, and command and leadership. Up to 4 additional credits may be granted based on the receiving institution's review of materials submitted by the student (7/94).

AR-1511-0022

ARMY WAR COLLEGE CORRESPONDING (BY
CORRESPONDENCE)

Course Number: None.

Location: Army War College, Carlisle Barracks, PA.

Length: Maximum, 104 weeks.

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will have an understanding of the science of warfare in the area of national security studies, strategy, force planning, and international relations, in order to prepare officers for higher command positions. Students will have an understanding of the process by which national strategy is formulated, including meeting changing threats to national security. This course is designed to train senior military officers in leadership and management of a large, complex organization. Students should demonstrate heightened awareness of personal values, strengths, and leadership styles; the development of an ethical framework for reasoning and value judgment; the development of creative skills for leadership in a complex organization; an understanding of historical perspectives as they relate to operational and organizational perspectives; and an understanding of budgeting and human resources management as well as program planning.

Instruction: This is a correspondence course offered over two years through readings and writing in military history and various strategic questions. There is a 2-week seminar at the War College at the end of each year of correspondence study. Students are required to complete substantial writing assignments which are critiqued. Topics include ethics, leadership, joint services operations, science of military warfare including implementation at the regional and global levels and its application to future warfare, human resources techniques, budgeting techniques, professionalism, self assessment techniques, American military history, theory of war, international relations, and American foreign policy.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in international economics, 3 in political science, 3 in human resources management, and 3 in geography (1/92); in the graduate degree category, 6 semester hours in management, 3-6 for the research paper, based on the receiving institution's review of the paper, 3 in national security studies, 2 in American military history, 1 in international politics, and 3 in American foreign relations. It is recommended that the receiving institution delay awarding of credit until the student has completed 3-6 graduate hours (1/92).

AR-1511-0023

DEFENSE STRATEGY BY CORRESPONDENCE

Course Number: None.

Location: Army War College, Carlisle Barracks, PA.

Length: 18-26 weeks.

Exhibit Dates: 1/90–1/90.

Learning Outcomes: Upon completion of the course, the student should be familiar with the domestic and international environment as it impacts on the formulation of national security policy.

Instruction: This is a correspondence course presenting national security strategy (domestic and international environments) and the development of a strategy to serve it. The writing component consists of several very short papers as well as one 1500-word paper on national strategy.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in national security. There is not a proctored final examination (1/92).

AR-1511-0024

INTELLIGENCE IN COMBATING TERRORISM
(Intelligence in Terrorism Counteraction)

Course Number: 3C-F14/244-F8.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 2 weeks (72-73 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will have knowledge of terrorist movements, terrorist tactics, organizations, and ideologies, and of terrorism threat assessment.

Instruction: Lectures, discussions, and classroom testing are the methods of instruction.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in international relations and terrorism (9/90).

AR-1511-0025

FOREIGN INTERNAL DEFENSE/INTERNAL DEFENSE
AND DEVELOPMENT

Course Number: 3A-F59.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 5 weeks (196 hours).

Exhibit Dates: 5/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to analyze and assess both insurgency and counterinsurgency warfare. The student will be able to understand and apply intelligence and psychological operations to various kinds of warfare. A basic knowledge of the role of the United States in international affairs will be learned.

Instruction: Lectures, seminars, and oral presentations are used in conjunction with readings in political science and economics case studies.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in political science (12/92).

AR-1511-0026

CIVIL AFFAIRS SPECIALIST RESERVE

Course Number: 500-38A10-RC.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 11 weeks (436 hours).

Exhibit Dates: 10/93–Present.

Learning Outcomes: Upon completion of the course, the student will have basic understanding of US and foreign maps; be familiar with urban and area research techniques and documents; conduct civil, governmental,

humanitarian, and defense assistance, conduct research and updates of area studies, and learn and apply organizational and leadership skills required in field operations.

Instruction: Methods of instruction include lectures, guided discussions, seminars, and practical exercises. Topics covered are map reading, land navigation, administration, communications, civil affairs, management, disaster aid, and domestic security, defense, and control.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in orienteering (12/92); in the upper-division baccalaureate category, 3 semester hours in public administration (12/92).

Related Occupations: 38A.

AR-1511-0027

REGIONAL STUDIES

Course Number: *Version 1:* 5D-F5. *Version 2:* 5D-F5.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: *Version 1:* 16-17 weeks (620 hours). *Version 2:* 14-15 weeks (557 hours).

Exhibit Dates: *Version 1:* 10/91–Present. *Version 2:* 2/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will understand the fundamentals of area studies as applied in a military context, have in-depth orientation in one of five regions of the world (Africa, Asia, Europe, Latin America, Middle East), develop proficiency in cross cultural issues, geography, history, economics, political science, and foreign policy. *Version 2:* Upon completion of the course, the student will understand the fundamentals of area studies as applied in a military context, have in-depth orientation in one of five regions of the world (Africa, Asia, Europe, Latin America, Middle East), develop proficiency in cross cultural issues, geography, history, economics, political science, and foreign policy.

Instruction: *Version 1:* Methods of instruction include lecture, discussion, seminars, texts, handbooks, secondary and primary documents. Topics covered include a general study of all of the following and an in-depth analysis of one (Africa, Asia, Europe, Latin America, Middle East). Cross cultural communications, geography, history, economics, political science and foreign policy are studied at the local, national, regional and world scales. *Version 2:* Methods of instruction include lecture, discussion, seminars, texts, handbooks, secondary and primary documents. Topics covered include a general study of all of the following and an in-depth analysis of one (Africa, Asia, Europe, Latin America, Middle East). Cross cultural communications, geography, history, economics, political science and foreign policy are studied at the local, national, regional and world scales.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 4 semester hours in national power, 3 in geopolitics of world regions, 3 in regional geography (one of the following areas: Africa, Asia, Latin America, Middle East, Europe), and 3 in comparative politics (12/93); in the graduate degree category, up to 6 semester hours may be awarded based on institutional evaluation (12/93). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in national power, 3 in geopolitics of world region, 3 in regional geography (one of the following: Africa, Asia, Latin

America, Europe, Middle East), and 3 in comparative politics (12/92). In the graduate degree category, up to 6 semester hours may be awarded based on institutional evaluation (12/92).

AR-1512-0010

INTERPERSONAL COMMUNICATIONS

Course Number: 1-19-XB-135.

Location: Military Police School, Ft. McClellan, AL.

Length: Self-paced, 1-2 weeks (48 hours).

Exhibit Dates: 1/90–Present.

Objectives: To acquaint instructors and trainers with the awareness and development of skills necessary for effective interpersonal communications.

Instruction: Lectures/seminars, demonstrations, and practical exercises (role-playing) in the art of helping as related to effective interpersonal communications. Course includes basic principles of interpersonal communications: attending skills, listening/responding skills, summarizing helpee expressions, problem solving and goal development.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in human relations or as an elective in guidance and counseling (3/82).

AR-1512-0011

FAMILY ADVOCACY STAFF TRAINING

Course Number: *Version 1:* 5H-F20/302-F20. *Version 2:* 5H-F20/302-F20.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 2 weeks (78-91 hours). *Version 2:* 3 weeks (128 hours).

Exhibit Dates: *Version 1:* 7/92–Present. *Version 2:* 1/90–6/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to understand the dynamics of child abuse to include child sexual abuse, family advocacy planning, and implementation; implement a family program plan, emphasizing prevention, legal issues, and resource management; and present the acquired information to others through a briefing or other instructional experience. *Version 2:* Upon completion of the course, the student will be able to provide specialized training to personnel working directly or indirectly in the area of family advocacy.

Instruction: *Version 1:* Course covers topics in family advocacy programs in the Department of Defense, family advocacy planning and evaluation, records management, resource management, substance abuse, spouse and child abuse, continuous quality improvement, legal issues related to the family and prevention programs. Methods include lectures and practical exercises. Students who do not successfully complete one or more critical portions of the course will receive a Certificate of Attendance but not a Certificate of Completion. Students do not receive an academic evaluation report. *Version 2:* Includes lectures, demonstrations, and experiential learning in the areas of management, needs assessment, evaluation, and counseling of child/spousal abuse.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in family advocacy and support intervention (5/94). *Version 2:* In the upper-division

baccalaureate category, 3 semester hours in family counseling (1/90).

AR-1512-0012

ALCOHOL AND DRUG ABUSE PREVENTION AND CONTROL PROGRAM ADVANCED COUNSELING SKILLS

Course Number: DA 484.

Location: Combined Arms Training Center, Munich, W. Germany.

Length: 1-2 weeks (54 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student is able to provide advanced counseling to alcoholics and substance abusers.

Instruction: Review of disease concept of alcoholism, counseling the alcoholic client, and family dynamics. Included also are the characteristics of drinking problems in women and knowledge about the current cultural/racial counseling issues with alcoholism. Instruction is provided on the recovery process.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in the counseling of alcoholics (7/87).

AR-1512-0013

ALCOHOL AND DRUG ABUSE PREVENTION AND CONTROL PROGRAM FAMILY COUNSELING

Course Number: *Version 1:* 5H-F7/30-F7. *Version 2:* DA 486.

Location: *Version 1:* Academy of Health Sciences, Ft. Sam Houston, TX. *Version 2:* Combined Arms Training Center, Munich, W. Germany.

Length: *Version 1:* 2 weeks (73-82 hours). *Version 2:* 1-2 weeks (54 hours).

Exhibit Dates: *Version 1:* 8/91–Present. *Version 2:* 1/90–7/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to assess communities and provide effective strategies to provide families with counseling services, including intake interviews, family assessment, and effective substance abuse counseling. Student will be able to deal ethically and legally with family-related issues. *Version 2:* Upon completion of the course, the student will be able to assess and counsel families and to function as a clinical director/clinical supervisor in community and residential facilities.

Instruction: *Version 1:* The course covers topics in family systems theory, patient assessment techniques, ethical issues, legal issues, legal aspects of drug abuse, and community assessment and intervention. Methods of instruction include seminars, conferences, and practical exercises. *Version 2:* The methods of instruction include lecture, demonstration, and practice. Topics include family systems theory, alcohol abuse, ethical practice, community resources, patient assessment techniques, therapeutic techniques, and family counseling applications.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in community intervention techniques and the family (4/94). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in family counseling (7/87).

AR-1512-0014

ALCOHOL AND DRUG ABUSE PREVENTION AND CONTROL PROGRAM GROUP COUNSELING SKILLS

Course Number: DA 483.

Location: Combined Arms Training Center, Munich, W. Germany.

Length: 2 weeks (69 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will have beginning skills in the organization and conduct of counseling groups.

Instruction: Includes the design and development of groups including establishment of group rules, norms, and goals. Course includes both theory and practice related to leadership styles, negotiation of leader-member roles, and related facilitative skills.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in group dynamics (7/87).

AR-1512-0015

ALCOHOL AND DRUG PREVENTION AND CONTROL PROGRAM INDIVIDUAL COUNSELING SKILLS

Course Number: DA 482.

Location: Combined Arms Training Center, Munich, W. Germany.

Length: 1-2 weeks (53-54 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide individual counseling services in a substance abuse agency.

Instruction: The course provides students with knowledge, skills, and practice in the basic concepts and applications of reality therapy, communications, drug and alcohol assessment, and counseling practice.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory counseling (7/87).

AR-1512-0016

BEHAVIORAL SCIENCE SPECIALIST

Course Number: *Version 1:* 302-91G10. *Version 2:* 302-91G10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: *Version 1:* 14-15 weeks (530-588 hours). *Version 2:* 15 weeks (571-576 hours).

Exhibit Dates: *Version 1:* 3/93–Present. *Version 2:* 1/90–2/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student, under professional supervision, will be able to administer and score psychological tests; interview clients to identify psychopathological disorders; counsel patients in drug abuse situations; identify, treat, and refer soldiers exhibiting combat stress; conduct and record client interviews; and determine the need for referral of clients with psychopathological disorders. *Version 2:* Upon completion of the course, the student will be able, under professional supervision, to interview clients in several settings, to administer and score psychological tests, and to assist in determining client need for referral.

Instruction: *Version 1:* Lectures and practical exercises in social, psychological and psychiatric principles, human development, group concepts, factors influencing behavior, behav-

ioral problems, substance abuse disorders, psychological testing, and counseling. *Version 2:* Lectures and practical exercises in social, psychological and psychiatric principles, human development, group concepts, factors influencing behavior, behavioral problems, substance abuse disorders, psychological testing, counseling.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in substance abuse, 3 in psychology, 2 in sociology, and 4 in human development (10/95); in the upper-division baccalaureate category, 3 semester hours in abnormal psychology, 3 in psychological testing, and 3 in psychological counseling (10/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in human development, 3 in counseling and testing, 3 in psychology, and 1 in sociology (12/91); in the upper-division baccalaureate category, 3 semester hours in abnormal psychology (12/91).

Related Occupations: 91G.

AR-1512-0017

RESERVE COMPONENT PSYCHOLOGICAL OPERATIONS OFFICER

Course Number: 3A-SI5E-RC: 5E-39B-RC.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: Phase 1, 2 weeks; Phase 2, 2 weeks; Phase 3, 3 weeks (218 hours).

Exhibit Dates: 1/90–10/93.

Learning Outcomes: Upon completion of the course, the student will understand and communicate the role and structure of psychological operations (psyops) intelligence in support of national objectives; plan, organize, direct, and supervise the use of psyops in all military operations across the spectrum of conflict; train personnel in psyops doctrines and techniques; demonstrate knowledge of social science theory and procedures in relation to psyops; analyze cross cultural communications; design propaganda programs for target audiences; coordinate, supervise, and disseminate psyops products using media skills, leadership skills, and decision making.

Instruction: Lectures, discussions, seminars, simulations, and practical exercises based on developing a scenario in a mythical region of the world. Topic include psychological operations, doctrine and organization of US psyop policy formulation and dissemination, social science theory and methodology, including cross-cultural communication, anthropological content in the execution of psyops, target analysis, propaganda development, and use of media. Credit recommended is for the course as completed in residence.

Credit Recommendation: In the upper-division baccalaureate category, For phase 1, 1 semester hour in psychology, 1 in area studies, 1 in marketing and advertising, and 1 in communications. In the upper-division baccalaureate category, for phase 2, 1 semester hour in psychology, 1 in area studies, and 1 in cross-cultural communications. In the upper-division baccalaureate category, for phase 3, 1 semester hour in media production and 1 in leadership studies. For those completing more than one phase the credit should be added (10/91).

AR-1512-0018

PSYCHOLOGICAL OPERATIONS OFFICER

Course Number: 3A-S151, 51-39B
Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC
Length: 6 weeks (218-224 hours)
Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will understand and communicate the role and structure of psychological operations (psyops) intelligence in support of national objectives; plan, organize, direct, and supervise the use of psyops in all military operations across the spectrum of conflict; train personnel in psyops doctrines and techniques; demonstrate knowledge of social science theory and procedures in relation to psyops; analyze cross cultural communications; design propaganda programs for target audiences; coordinate, supervise, and disseminate psyops products using media skills, leadership skills, and decision making.

Instruction: Lectures, discussions, seminars, simulations, and practical exercises based on developing a scenario in a mythical region of the world. Topic include: psychological operations, doctrine and organization of U.S. psyop policy formulation and dissemination, social science theory and methodology including cross-cultural communication, anthropological content in the execution of psyops, target analysis, propaganda development, and use of media.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in psychology, 2 in communications theory, 2 in area studies, 1 in media production, 1 in marketing and advertising, and 1 in leadership studies (10/91).

AR-1512-0019

SPECIAL OPERATIONS STAFF OFFICER

Course Number: 2E-F112.
Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.
Length: 4-7 weeks (153-275 hours).
Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will exhibit skills in planning operations and managing resources needed to implement operations including military forces, equipment and supplies; advise foreign policy developers in special operations activities with emphasis on peace time policy operations.

Instruction: Lectures and practical exercises in planning and employment of Special Operations forces in the low- and mid-intensity spectrums. Instruction includes Special Operations organization and mission, employment, command and control structure, US foreign policy, regional studies, campaign planning, crisis action systems, and the joint deployment system and threat forces.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principles of management, 3 in logistics management, and 3 in international relations (12/92).

AR-1512-0020

PSYCHOLOGICAL OPERATIONS BASIC
 NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 243-37F30. *Version 2:* 243-96F30. *Version 3:* 243-96F30.
Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: *Version 1:* 6-7 weeks (285 hours). *Version 2:* 5-6 weeks (225 hours). *Version 3:* 4 weeks (151 hours).

Exhibit Dates: *Version 1:* 10/92-Present. *Version 2:* 6/90-9/92. *Version 3:* 1/90-5/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to classify and document primary materials; apply social science research techniques; select, employ, deliver, and evaluate verbal, print, and telecommunicated information. *Version 2:* Upon completion of the course, the student will be able to classify and document intelligence materials; brief superiors; work with social science research methodology; describe and critique target analysis process; identify and use counter-propaganda techniques; employ and evaluate communications media in developing a psychological operations campaign; coordinate supporting units; use automated data system; and use communications technology and audio-visual equipment. *Version 3:* Upon completion of the course, the student will be able to classify and document intelligence materials; brief superiors; work with social science research methodology; describe and critique target analysis process; identify and use counter-propaganda techniques; analyze Soviet psychological awareness programs; select, employ and evaluate communications media in developing a psychological operations campaign; coordinate supporting units; use automated data system; and use communications technology and audio-visual equipment.

Instruction: *Version 1:* Lectures, directed discussions, and practical exercises on: map reading and land navigation, social science research techniques, and media selection, analysis, and distribution. *Version 2:* Lectures, student discussions, and exercises on topics such as map analysis and land navigation, intelligence, psychological operations, social science research methodology, propaganda analysis, target analysis and media selection, communications, automated data systems, and counter-propaganda techniques. *Version 3:* Lectures, student discussions, and exercises on topics such as map analysis and land navigation, intelligence, psychological operations, social science research methodology, propaganda analysis, target analysis and media selection, communications, automated data systems, and counter-propaganda techniques.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in map interpretation, 1 in audio visual techniques, and 3 in communications. See AR-1406-0090 for common core credit (12/92). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in map interpretation, 3 in communications, and 1 in audio visual techniques. See AR-1406-0090 for common core credit (12/92). *Version 3:* In the lower-division baccalaureate/associate degree category, 1 semester hour in data processing, 1 in map interpretation, and 1 in audio-visual techniques. See AR-1406-0090 for common core credit (12/88); in the upper-division baccalaureate category, 1 in social science, 1 in marketing or advertising and 1 in communications production (12/88).

Related Occupations: 37F; 96F.

AR-1512-0021

PSYCHOLOGICAL OPERATIONS SPECIALIST

Course Number: *Version 1:* 243-96F10; 243-37F10. *Version 2:* 243-96F10; 243-37F10.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: *Version 1:* 9-11 weeks (333-443 hours). *Version 2:* 9-11 weeks (333-443 hours).

Exhibit Dates: *Version 1:* 10/91-Present. *Version 2:* 1/90-9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to use US and foreign maps in support of tactical psychological operations (psyops) missions; process and use relevant intelligence to support tactical operations; identify and conceptualize psyops; analysis and respond to foreign propaganda; target an audience and market a propaganda product; use media equipment; identify Soviet psychological warfare techniques and capabilities; apply persuasive techniques in conducting counterpropaganda campaigns. Student will apply communication theory. *Version 2:* Upon completion of the course, the student will be able to use US and foreign maps in support of tactical psychological operations (psyops) missions; process and use relevant intelligence to support tactical operations; identify and conceptualize psyops; analysis and respond to foreign propaganda; target an audience and market a propaganda product; use media equipment; identify Soviet psychological warfare techniques and capabilities; apply persuasive techniques in conducting counterpropaganda campaigns.

Instruction: *Version 1:* Lectures, small group discussions, and seminars on map reading and land navigation, audience analysis for propaganda campaigns, use of media/audio-visual equipment, use of printed media and its production, examination of intelligences sources and reports, U.S. policy formulation, dynamics of interpersonal and cross-cultural communications process, cultural biases, Soviet psyops. Course includes a simulation exercise dealing with the application of intelligence procedures in the field. *Version 2:* Lectures, small group discussions, and seminars on map reading and land navigation, audience analysis for propaganda campaigns, use of media/audio-visual equipment, use of printed media and its production, examination of intelligences sources and reports, U.S. policy formulation, dynamics of interpersonal and cross-cultural communications process, cultural biases, Soviet psyops. Course includes a simulation exercise dealing with the application of intelligence procedures in the field.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in communications technology (12/92); in the lower-division baccalaureate/associate degree category, 2 semester hours in map interpretation, 1 in marketing or advertising, 2 in communication theory, 1 in principles of psychology, and 2 in media production (12/92). *Version 2:* In the vocational certificate category, 2 semester hours in communications technology (10/91); in the lower-division baccalaureate/associate degree category, 1 semester hour in map interpretation, 1 in marketing or advertising, 1 in record keeping, 1 in communications theory, 1 in principles of psychology, 1 in area studies, and 2 in media production (10/91).

Related Occupations: 37F; 96F.

AR-1512-0022

RESERVE COMPONENT PSYCHOLOGICAL OPERATIONS
SPECIALIST

Course Number: *Version 1:* 243-96F10-RC
IDT/ADT: 331-37F10-RC IDT/ADT. *Version 2:*
243-96F10-RC IDT/ADT.

Location: John F. Kennedy Special Warfare
Center and School, Ft. Bragg, NC.

Length: *Version 1:* 101 hours. *Version 2:*
Phase 1, 3 weeks (118 hours); Phase 2, 3 weeks
(113 hours).

Exhibit Dates: *Version 1:* 10/90–Present.
Version 2: 1/90–9/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to operate and maintain media/audiovisual equipment, prepare and distribute written persuasive material, and demonstrate integration of learning. *Version 2:* Upon completion of the course, the student will be able to use US and foreign maps in support of tactical psychological operations (psyops) missions; process and use relevant intelligence to support tactical operations; identify and conceptualize psyops; analysis and respond to foreign propaganda; target an audience and market a propaganda product; use media equipment; identify Soviet psychological warfare techniques and capabilities; apply persuasive techniques in conducting counter propaganda campaigns.

Instruction: *Version 1:* Lectures, applied exercises, discussions, and simulations in the selection, operation, and application of media/audiovisual equipment to meet specific needs are presented in this course. *Version 2:* Lectures, small group discussions, and seminars on map reading and land navigation, audience analysis for propaganda campaigns, use of media/audio-visual equipment, use of printed media and its production, examination of intelligence sources and reports, US policy formulation, dynamics of interpersonal and cross-cultural communications process, cultural biases, Soviet psyops. Course includes a simulation exercise dealing with the application of intelligence procedures in the field.

Credit Recommendation: *Version 1:* In the vocational certificate category, 2 semester hours in communication technology (12/93); in the lower-division baccalaureate/associate degree category, 2 semester hours in media production. Credit is for Phase II (12/93). *Version 2:* In the vocational certificate category, 2 semester hours in communications technology (12/88); in the lower-division baccalaureate/associate degree category, 2 in media production (12/88).

AR-1512-0023

JOINT PSYCHOLOGICAL OPERATIONS STAFF
PLANNING

(Joint Operations Staff Planning)

Course Number: 3A-F53/243-F12.

Location: John F. Kennedy Special Warfare
Center and School, Ft. Bragg, NC.

Length: 2 weeks (76-77 hours).

Exhibit Dates: 1/90–10/93.

Learning Outcomes: Upon completion of the course, the student will be able to use planning skills in preparation and support of joint operations; understand role, mission, and functions of psychological operations; analyze foreign psychological operations, doctrines and practices.

Instruction: Lectures and exercises on the above topics.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/89).

AR-1512-0024

ALCOHOL AND DRUG ABUSE PREVENTION AND
CONTROL (ADAPCP) FAMILY
COUNSELING

Course Number: 5H-F8/302-F8.

Location: Academy of Health Sciences, Ft.
Sam Houston, TX.

Length: 2 weeks (72-83 hours).

Exhibit Dates: 8/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to determine the most appropriate strategies and intervention for treatment of a family when a substance abusing member is present; implement a plan with consideration to the family structures, specific outcomes of the intervention, and eventual termination of the relationship.

Instruction: Covers topics in theories of family treatment, family structures, intervention techniques and applications, and termination of the counseling relationship. Methods include conferences, demonstrations and extensive practical application exercises.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in family counseling (4/94).

AR-1512-0025

PSYCHOLOGICAL OPERATIONS ADVANCED
NONCOMMISSIONED OFFICER

Course Number: 243-37F40.

Location: John F. Kennedy Special Warfare
Center and School, Ft. Bragg, NC.

Length: 6-7 weeks (254 hours).

Exhibit Dates: 10/93–Present.

Learning Outcomes: Upon completion of the course, the student will be able to describe and identify unconventional warfare techniques, identify personnel and resource needs for psychological operations activities, evaluate specific psychological operations environments, discuss the purpose and mission of the psychological operations program, and basic leadership procedures.

Instruction: Instruction includes lecture, tours demonstration, and exercises in common leadership skills and unconventional warfare planning. Instruction includes written and oral examinations.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (3/96).

AR-1512-0026

PSYCHOLOGICAL OPERATIONS ADVANCED
NONCOMMISSIONED OFFICER, (NCO)
RESERVE COMPONENT, PHASE 2

Course Number: 243-37R40-RC.

Location: John F. Kennedy Special Warfare
Center and School, Ft. Bragg, NC.

Length: 2-3 weeks (120 hours).

Exhibit Dates: 10/93–Present.

Learning Outcomes: Upon completion of the course, the student will be able to evaluate the battlefields psychological environment and apply propaganda techniques for dissemination of information; compare and contrast intelligence information; and provide choices of action for the field commander.

Instruction: Instruction consists of practical exercises; review of literature, manuals, and text materials; group discussions; exercise critiques; and completion of oral exams.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (3/96).

AR-1513-0007

ARMY COMMUNITY SERVICE

Course Number: None.

Location: Institute for Personnel and
Resource Management, Ft. Benjamin Harrison,
IN.

Length: 1 week (49 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train managerial personnel to manage community service centers.

Instruction: Conference and practical applications including publicity, funding sources, private organization, foster care, referrals and followups and community relations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (3/85).

AR-1513-0008

ARMY COMMUNITY SERVICE MANAGEMENT

Course Number: None.

Location: Institute for Personnel and
Resource Management, Ft. Benjamin Harrison,
IN.

Length: 3 weeks (114 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide managerial personnel within the Army community service area with the skills necessary for successful management of community service programs.

Instruction: Lectures and practice to prepare students to manage Army community service centers including needs assessment, programs, resource management, budgeting, staffing and administration.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in resource management and budgeting (3/85).

AR-1513-0009

INDIVIDUAL TERRORISM AWARENESS

Course Number: 3A-F40/011-F21.

Location: John F. Kennedy Special Warfare
Center and School, Ft. Bragg, NC.

Length: 1 week (58-59 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be able to understand the nature of terrorism, evaluate motivation, organization, and tactics of terrorist groups; describe terrorist operations including planning and execution of terrorist attacks; reduce vulnerability to terrorist attack; demonstrate knowledge of counterterrorist surveillance, survival, individual protective measures; use hostage survival techniques and clandestine communication skills; describe the relationship between terrorism and the media and minimize terrorist use of media; teach others how to limit their vulnerability to terrorist selection and attack; teach others techniques to survive a terrorist assault and how to maximize survival in a hostage situation.

Instruction: Lectures and discussions including introduction to terrorism, terrorist

operations, conducting terrorist surveillance, individual protective measures, survival, shooting techniques, hostage survival techniques including resistance to interrogation, clandestine communication techniques, and terrorism and the media.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in social science (3/92).

AR-1513-0010

DIRECTOR OF PERSONNEL AND COMMUNITY ACTIVITIES (DPCA)

Course Number: 7C-F15/500-F17

Location: Soldier Support Institute, Ft. Benjamin Harrison, IN.

Length: 3-4 weeks (154 hours).

Exhibit Dates: 1/90-12/91

Learning Outcomes: Upon completion of the course, the student will be able to describe the duties and responsibilities of a human services manager, perform physical training exercises, manage budgets, develop internal controls, staff and manage a human services operation.

Instruction: Methods of instruction include lecture and classroom discussions. Topics covered are human resource operations, personnel counseling, personal counseling, and family support services.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in human services management (12/88).

AR-1601-0030

PETROLEUM LABORATORY SPECIALIST

Course Number: *Version 1:* 491-77L10, *Version 2:* 491-77L10.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 9-10 weeks (396-397 hours). *Version 2:* 11 weeks (408-428 hours).

Exhibit Dates: *Version 1:* 10/96-Present. *Version 2:* 1/90-9/96.

Learning Outcomes: *Version 1:* This version is pending evaluation. Personnel will be able to conduct laboratory testing and analysis of petroleum products, and operate and maintain CFR test engines. *Version 2:* Personnel will be able to conduct laboratory testing and analysis of petroleum products, and operate and maintain CFR test engines.

Instruction: *Version 1:* This version is pending evaluation. Lectures, demonstrations, and practical exercises in basic petroleum laboratory subjects; tests required for surveillance of petroleum products; procedures and techniques for the identification, evaluation, and disposition of petroleum products; and the organization and operation of the quality surveillance program in military petroleum facilities. *Version 2:* Lectures, demonstrations, and practical exercises in basic petroleum laboratory subjects; tests required for surveillance of petroleum products; procedures and techniques for the identification, evaluation, and disposition of petroleum products; and the organization and operation of the quality surveillance program in military petroleum facilities.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 9 semester hours in testing and analysis of petroleum products (4/91); in the lower-division baccalaureate/associate degree

category, 3 semester hours in physical science (4/91).

Related Occupations: 77L, 77L, 92C

AR-1601-0054

FIELD ARTILLERY TARGET ACQUISITION AND FIELD ARTILLERY SURVEY OFFICER

Course Number: 21-13D

Location: Field Artillery School, Ft. Sill, OK.

Length: 7-8 weeks (267 hours)

Exhibit Dates: 1/90-Present

Objectives: To train field artillery officers in the field of target acquisition/reconnaissance and survey.

Instruction: Lectures, demonstrations, and field exercises on target acquisition systems including planning, employment, supervision, and training in survey, targeting, and radar.

Credit Recommendation: In the vocational certificate category, 1 semester hour in radar operations (6/88); in the lower-division baccalaureate/associate degree category, 6 semester hours in surveying and 2 in astronomy (6/88).

AR-1601-0055

MARINE CORPS FIELD ARTILLERY FIRE CONTROLMAN

(Marine Field Artillery Fire Controlman)

Course Number: 041-0844: 250-0844.

Location: Field Artillery School, Ft. Sill, OK.

Length: 7 weeks (267 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train Marine Corps enlisted personnel in map reading, artillery surveying and cannon fire direction.

Instruction: Lectures, demonstrations and field exercises in map reading and plotting, cannon fire direction, artillery survey, and gunnery. Student is taught basic mathematics including logarithms and right triangle trigonometry.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in map reading, 1 in surveying, 1 in technical mathematics (10/86).

AR-1601-0056

MULTIPLE LAUNCH ROCKET SYSTEMS (MLRS)/LANCE OPERATIONS

(Lance Operations/Fire Direction Assistant)

Course Number: 250-15J10.

Location: Field Artillery School, Ft. Sill, OK.

Length: 11 weeks (392-411 hours).

Exhibit Dates: 1/90-Present.

Objectives: To qualify enlisted personnel to become fire direction assistants in a Lance missile unit or Multiple Launch Rocket Systems unit.

Instruction: Lectures and practical exercises in the operation and maintenance of Lance operation/MLRS Fire Direction System Platoon Leader Digital Message Device, hand-held calculator, and the use of fire direction system message formats.

Credit Recommendation: In the vocational certificate category, 1 semester hour in map reading (11/85); in the lower-division baccalaureate/associate degree category, 2 semester hours in computer operations (11/85).

Related Occupations: 15J.

AR-1601-0065

ADVANCED PETROLEUM MANAGEMENT

Course Number: 8-10 OVA 81A

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 8 weeks (293 hours)

Exhibit Dates: 1/90-10/91

Objectives: To prepare commissioned officers to perform duties in fuels and energy management.

Instruction: Lectures, conferences, laboratory and practical exercises, inspections, tours, and demonstrations all present the materials covered in this course. Topics include advanced petroleum operations, basic petroleum mathematics and hydraulics, petroleum equipment and field operations, petroleum operations of each service, and the support relationships for joint operations, organization and operation of a quality surveillance program, and evaluation and disposition of petroleum products.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to petroleum management (8/85).

AR-1601-0068

AIR DEFENSE ARTILLERY (ADA) OPERATIONS AND INTELLIGENCE ASSISTANT

Course Number: 250-16H10-AIT: 250-16H10; 250-16H10-OSUT: 16H10-OSUT; 16H10-OSUT (Phase 1); 16H10-OSUT (ST) (Phase 1 and 2).

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 5-29 weeks (209-1259 hours).

Exhibit Dates: 1/90-6/94.

Objectives: To train enlisted personnel to become Air Defense Artillery operators and intelligence assistants.

Instruction: Course consists of conferences and practical exercises in basic soldier skills, and military occupational specialty operation skills. Topics include map reading, communication skills, tactical operations center operations, and AN/TSQ-73 system command/control console operator tasks.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/88).

Related Occupations: 16H.

AR-1601-0070

COMBAT ENGINEER

Course Number: 12B10-OSUT: 030-12B10; 12B10-OSUT (ST)

Location: Training Center Engineer, Ft. Leonard Wood, MO.

Length: 7-13 weeks (567 hours).

Exhibit Dates: 1/90-12/91.

Objectives: To provide personnel with specific military skills and knowledge required of a combat engineer.

Instruction: Lectures and practical experiences in specific military areas of demolition, mine/countermine operations, field fortifications, land navigation, camouflage operations, and offensive and defensive tactical operations. Course may include basic training.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/83).

Related Occupations: 12B.

AR-1601-0071

PETROLEUM LABORATORY SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 491-92C30.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 4 weeks (147 hours).

Exhibit Dates: 1/90-9/91.

Objectives: To educate and train enlisted personnel in the supervision of a petroleum laboratory test activity.

Instruction: Practical exercises, conferences and lectures, demonstrations, television, and examinations are the methods of presenting laboratory safety, sampling and gaging procedures, petroleum laboratory testing procedures, petroleum laboratory maintenance program, and quality surveillance operations.

Credit Recommendation: In the vocational certificate category, 3 semester hours in petroleum laboratory test activity (8/88); in the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (8/88).

Related Occupations: 92C.

AR-1601-0072

1. PETROLEUM SUPPLY SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)
2. PETROLEUM SUPPLY SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)
3. PETROLEUM SUPPLY SPECIALIST BASIC
NONCOMMISSIONED PETROLEUM SUPPLY
SPECIALIST BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: *Version 1:* 821-77F30.
Version 2: 821-77F30. *Version 3:* 821-76W30.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 10-11 weeks (373-374 hours). *Version 2:* 9 weeks (335 hours). *Version 3:* 5 weeks (180 hours).

Exhibit Dates: *Version 1:* 10/95-Present.
Version 2: 10/91-9/95. *Version 3:* 1/90-9/91.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to supervise pipeline or pump station operations, petroleum supply storage facilities, and water supply and distribution systems. *Version 2:* Upon completion of the course, the student will be able to supervise pipeline or pump station operations, petroleum supply storage facilities, and water supply and distribution systems. *Version 3:* Upon completion of the course, the student will understand the functions of a petroleum supervisor.

Instruction: *Version 1:* This version is pending evaluation. The course utilizes practical exercises, demonstrations, inspections, field exercises, and examinations in general petroleum subjects, supply point and terminal operations, pipeline systems, water supply operations, and laboratory tests. *Version 2:* The course utilizes practical exercises, demonstrations, inspections, field exercises, and examinations in general petroleum subjects, supply point and terminal operations, pipeline systems, water supply operations, and laboratory tests. *Version 3:* The course utilizes practical exercises, demonstrations, inspections, field exercises, and examinations in general petroleum subjects, supply point and terminal operations, pipeline systems, water supply operations, and laboratory tests.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in petroleum supply specialist or petroleum supply technology or in applied science. See AR-1406-0090 for common core credit (2/93). *Version 3:* In the vocational certificate category, 3 semester hours in petroleum supply (10/88).

Related Occupations: 76W.

AR-1601-0075

PETROLEUM SUPPLY SPECIALIST

Course Number: *Version 1:* 821-77F10.
Version 2: 821-77F10.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 9 weeks (395 hours).
Version 2: 9-10 weeks (338-362 hours).

Exhibit Dates: *Version 1:* 6/93-Present.
Version 2: 1/90-5/93.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will have knowledge in receiving, storing, issuing, dispensing, and shipping of petroleum products. *Version 2:* Upon completion of the course, the student will have knowledge in receiving, storing, issuing, dispensing, and shipping of petroleum products.

Instruction: *Version 1:* This version is pending evaluation. Lectures and practical exercises in packing operations, supply point operations, terminal operations, and pipeline operations. *Version 2:* Lectures and practical exercises in packing operations, supply point operations, terminal operations, and pipeline operations.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 3 semester hours in petroleum storage procedures (10/90).

Related Occupations: 77F; 77F.

AR-1601-0076

PETROLEUM SUPPLY RESERVE SPECIALIST RESERVE
COMPONENT

Course Number: 821-77F10-RC.

Location: Quartermaster Center and School, Ft. Lee, VA; Selected Reserve Component Schools, Continental US.

Length: 2 weeks (88 hours).

Exhibit Dates: 1/90-10/91.

Learning Outcomes: Upon completion of the course, the student will be able to perform skills in direct and general support of all areas involving petroleum products and water supply operations.

Instruction: Lectures, demonstrations, and practical exercises in general petroleum subjects including fire and safety precautions and health and handling hazards, class III supply point operations, terminal and pipeline operations, and water supply operations.

Credit Recommendation: In the vocational certificate category, 6 semester hours in petroleum products (10/88).

Related Occupations: 77F.

AR-1601-0078

CANNON CREWMEMBER ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: 041-13B40.

Location: Field Artillery School, Ft. Sill, OK.

Length: 8-9 weeks (288-349 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to serve as a chief noncommissioned officer in a common artillery unit, apply skills needed for reconnaissance and emplacement of an artillery battery, supervise all details for occupation of the selected location, and then coordinate the surveying procedures needed for accurate firing. Specific competencies include the use of optical instruments, surveying instruments, communications equipment, and computer equipment. The student will be able to provide leadership and skill in planning, organizing, supervising and coordinating the effective functioning of the unit.

Instruction: Methods of instruction include lectures, conferences, activities and field exercises covering topics in leadership, decision making, supervision, tactics, surveying procedures, and communications systems. Through performance exercises and examinations, the student demonstrates competence in the topics taught.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in surveying, 1 in technical communications, 1 in principles of management. See AR-1404-0035 for common core credit (1/92).

Related Occupations: 13B.

AR-1601-0079

FIELD ARTILLERY SURVEYOR

Course Number: 412-82C10; 412-82C10/
412-82C10 (ST).

Location: Field Artillery School, Ft. Sill, OK.

Length: 9-11 weeks (373-424 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform as a member of a field artillery survey party, employ proper map reading techniques, operate secure radio and wire communication equipment, establish distances and location of points by mechanical, electronic, and astronomical methods.

Instruction: Lectures and practice in the various map displays, astronomical observations and computations, use of aiming circle, horizontal taping, theodolite triangulation and electronic distance measuring equipment, gyroscopic azimuthal determinations, closure errors, methods of encoding and decoding messages, set-up and operation of various field radios, computation of grid locations, distances, directions, heights, and astronomic positions from field data with the aid of a computer and/or calculator.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in general surveying and 1 for basic field practice in surveying (10/89); in the upper-division baccalaureate category, 3 semester hours in advanced surveying methods and 1 for field practice in surveying (10/89).

Related Occupations: 82C.

AR-1601-0080

SENIOR UTILITIES QUARTERMASTER/CHEMICAL
EQUIPMENT REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)
TECHNICAL PORTION

Course Number: Phase 2, 690-52C30

Location: Ordnance Center and School, Aberdeen Proving Ground, MD

Length: 6 weeks (1212 hours)

Exhibit Dates: 1/90–Present

Learning Outcomes: Upon completion of the course, the student will be able to repair, maintain, and troubleshoot pumps, laundry equipment, clothing repair equipment, chemical decontamination equipment, and water purification

Instruction: Course consists of lecture and practices on the maintenance, repair and troubleshooting of basic electricity, schematic reading, pumps, laundry equipment including washers and dryers, water heaters, light and medium sewing machines, filter units, air compressors, smoke generators, decontamination apparatus, erdlators, and steam cleaners.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in equipment repair (12/90).

AR-1601-0081

COMBAT ENGINEER BASIC, NONCOMMISSIONED OFFICER (NCO)

Course Number: 030-2-12B30; 030-4-12B30; 030-5-12B30; 030-6-12B30; 030-9-12B30; 030-12-12B30; 030-13-12B30; 030-18-12B30; 030-20-12B30.

Location: Training Center, Ft. Stewart, GA; Training Center, Ft. Campbell, KY; Training Center, Ft. Hood, TX; Training Center, Ft. Ord, CA; Training Center, Grafenwoehr, Germany; Training Center, Ft. Leonard Wood, MO; Training Center, Ft. Bragg, NC.

Length: 7-8 weeks (298-321 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise demolition operations; prepare reconnaissance reports; supervise minefield operations; and supervise military bridge construction.

Instruction: Lectures, demonstrations, and practical experiences in demolitions, reconnaissance reports, minefields, and Bailey bridge, fixed bridge, and floating bridge construction.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (1/93).

AR-1601-0082

COMBAT ENGINEERING ADVANCED
NONCOMMISSIONED OFFICER

Course Number: 0-12-C42.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 7-10 weeks (310-369 hours).

Exhibit Dates: 3/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to support combat operations by being proficient in demolitions; by practicing survival skills; by understanding mine/countermine warfare; by determining military load classifications for timber trestle, concrete slab, concrete T-beam, and masonry arch bridges; by understanding the use, design, and construction of military fixed/float bridges; and in general combat engineering such as construction of wire obstacles and anti-vehicle ditches.

Instruction: Lectures, demonstrations, and practical exercises on the above topics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in general construction. See AR-1404-0035 for common core credit (4/87).

AR-1601-0083

CONSTRUCTION EQUIPMENT SUPERVISOR BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 713-62N30

Location: Engineer School, Ft. Leonard Wood, MO

Length: 7-10 weeks (260-399 hours)

Exhibit Dates: 6/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise, inspect, and plan heavy/highway construction projects; operate heavy construction equipment; and prepare reconnaissance reports.

Instruction: Lectures, demonstrations, and practical exercises on the above topics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in project supervision. See AR-1406-0090 for common core credit (1/93).

AR-1601-0084

BRIDGE CREWMEMBER BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 030-12C30.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 8-9 weeks (310-337 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise the installation of fixed bridging, river crossing operations, rigging and demolitions, and perform site reconnaissance missions.

Instruction: Lectures, demonstrations, and practical exercises in types and deployment of various military bridges, river crossings, demolitions, rigging, and site selection.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (1/93).

AR-1601-0085

CARPENTRY/MASONRY SPECIALIST RESERVE
COMPONENT

Course Number: 052-51B10-RC.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 3-4 weeks (120 hours).

Exhibit Dates: 2/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify materials and tools of construction; construct woodframe floor, wall and roof systems; perform building layout; mix and place concrete; and erect masonry walls.

Instruction: Lectures and practical exercises on tools and materials, woodframe construction practices, building layout, and construction of masonry and concrete components.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in carpentry and 1 in masonry (1/93).

AR-1601-0086

COMBAT ENGINEER

Course Number: 12B10-OSUT/030
12B10/12B10-OSUT (ST)

Location: Engineer School, Ft. Leonard Wood, MO

Length: 6-13 weeks (239-595 hours)

Exhibit Dates: 1/92–Present

Learning Outcomes: Upon completion of the course, the student will be able to describe mine operations, demolition activities, construction operations, river crossings, and rigging

Instruction: Lectures, demonstrations, and exercises in engineer tools, mine/countermine operations, basic combat construction, rigging, demolitions, fixed bridging, river crossing operations, and vehicle operations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (1/93).

AR-1601-0087

CONSTRUCTION SURVEYOR

Course Number: 412-82B10.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 10-14 weeks (413-523 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform basic surveying measurements of distances, angles, and elevations by use of the steel tape, engineer's level, one-minute theodolite, electronic distance measuring device, basic trigonometric functions, and the electronic hand calculator; collect topographic data by transit stadia and plane table methods, and prepare a map from data collected; perform construction layout of buildings and utilities; perform centerline profile and cross section surveys; determine curve data and layout horizontal curves; perform basic road construction computation; and interpret site plans and construction drawings.

Instruction: Lectures, demonstrations, and practical exercises in the use of standard surveying equipment, topographic mapping techniques, construction layout, reading of plans and drawings, and computational techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic surveying and 3 in construction surveying (3/93).

AR-1601-0088

MATERIALS QUALITY SPECIALIST

Course Number: 491-51G10.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 11-12 weeks (439 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to test aggregates, soils, concrete, and bituminous materials; interpret material test results; assist in site evaluation; assist the military engineer in design and construction; and perform basic quality control operations.

Instruction: Lectures, demonstrations, and practical experiences in soil types and classifications, soil testing procedures and equipment ranging from Speedy Moisture Kits to nuclear densometers; concrete batten design and testing including slump, air, and compression tests and analysis; and identification of bituminous materials, asphalt/aggregate mixtures, testing of hot

mixes, design of bituminous mix by Marshall Stability Method.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in soil mechanics and testing, 3 in concrete mix design and testing, and 3 in asphalt mix design and testing (1/93).

AR-1601-0089

BRIDGE SPECIALIST

Course Number: 12C10-OSUT/030-12C10/12C10-OSUT (ST).

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 6-13 weeks (272-589 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to assist in the installation of fixed bridging, rigging, river crossing operations and vehicle operation and maintenance.

Instruction: Lectures and practical exercises on the above topics. Thirteen week version includes basic training.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (1/93).

AR-1601-0090

TECHNICAL ENGINEERING SUPERVISOR BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 413-51T30. *Version 2:* 413-51T30.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: *Version 1:* 11-12 weeks (445-446 hours). *Version 2:* 12-15 weeks (504-527 hours).

Exhibit Dates: *Version 1:* 10/94–Present. *Version 2:* 2/92–9/94.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to perform basic soil tests; prepare architectural drawings; perform basic surveying operations; and provide on-site scheduling and supervision. *Version 2:* Upon completion of the course, the student will be able to perform basic soil tests; prepare architectural drawings; perform basic surveying operations; and provide on-site scheduling and supervision.

Instruction: *Version 1:* This version is pending evaluation. Lectures, demonstrations, and practical exercises on the above topics. Includes leadership subjects. *Version 2:* Lectures, demonstrations, and practical exercises on the above topics. Includes leadership subjects.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in basic soils testing, 2 in architectural drafting, 2 in basic surveying, and 2 in project supervision. See AR-1406-0090 for common core credit (1/93).

AR-1601-0091

ENGINEER OFFICER BASIC

Course Number: 4-5-C20.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: (957-958), 17 weeks.

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to design and build Bailey and floating bridges; design and inspect concrete construction, and plan and manage construction projects.

Instruction: Lectures, demonstrations, and practical exercises in leadership and ethics, maintenance and supply, training, tactical doctrine, construction operations, and general engineering support.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in materials and methods of construction (1/93).

AR-1601-0092

ENGINEER OFFICER ADVANCED

Course Number: 4-5-C22.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 20 weeks (866 hours).

Exhibit Dates: 7/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to lead and develop subordinates' physical and psychological capabilities; implement team building concepts; manage and coordinate various units within an organization including production, equipment and supplies; design, plan, and manage construction projects including: soil mechanics, drainage, concrete and asphalt paving, bridges, utilities, and structures; and inspect and assure quality in concrete, wood, and metal structures.

Instruction: Lectures, demonstrations, and practical exercises in the management and control of an organization in production, equipment, and supply.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in methods/materials of heavy construction, 3 in design, analysis, and construction of structures, and 3 in heavy/highway administration (1/93).

AR-1601-0093

ENGINEER EQUIPMENT REPAIR TECHNICIAN WARRANT OFFICER TECHNICAL TACTICAL CERTIFICATION RESERVE

Course Number: 4L-213A-RC.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: Phase 2, 2 weeks (114 hours); Phase 4, 2 weeks (117 hours).

Exhibit Dates: 5/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to (phase 2) manage a repair facility and direct shop personnel and diagnose, repair and maintain power generation equipment; (phase 4) diagnose, repair and maintain construction equipment including: clutches, brakes, tracks, air compressor systems and hydraulics.

Instruction: Lectures and practical exercises on the above topics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, for phase 2, 3 semester hours in repair facility management; for phase 4, 3 semester hours in construction equipment repair (1/93).

AR-1601-0094

UTILITIES OPERATOR AND MAINTENANCE TECHNICIAN SENIOR WARRANT RESERVE COMPONENT

Course Number: 4-5-C32-210A-RC.

Location: Engineer School, Ft. Leonard Wood, MO; Engineering Housing Support Center, Ft. Belvoir, VA.

Length: 4 weeks (146 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage utilities, construction, and maintenance activities.

Instruction: Lectures and practical exercises in management to include staff studies, schedule preparation, employee relations, and report preparation; planning, operation, and maintenance in the installation of utility systems; quality control in construction projects; and operation of a utility facility.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in facility management and 1 semester hour in personnel supervision (1/93).

AR-1601-0095

PETROLEUM LABORATORY SPECIALIST BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 491-77L30.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 6 weeks (213-215 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise a medium-sized petroleum laboratory test activity, including laboratory safety, sampling, and gauging procedures, and maintenance and quality surveillance operations.

Instruction: Practical exercises, conferences and lectures, demonstrations, television, and examinations are the methods of presenting laboratory safety, sampling and gauging procedures, petroleum laboratory maintenance program, and quality surveillance operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in petroleum laboratory specialist, petroleum laboratory science, or applied science. See AR-1406-0090 for common core credit (5/96).

AR-1601-0097

PETROLEUM OFFICER

Course Number: *Version 1:* 8B-92F. *Version 2:* 8B-92F.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 8 weeks (304 hours). *Version 2:* 8 weeks (289-304 hours).

Exhibit Dates: *Version 1:* 10/95–Present. *Version 2:* 2/90–9/95.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to perform petroleum management duties in staff and operations assignments, to supervise supply/distribution point operations, quality surveillance/control operations, and to perform petroleum and water management functions. *Version 2:* Upon completion of the course, the student will be able to perform petroleum management duties in staff and operations assignments, to supervise supply/distribution point operations, quality surveillance/control operations, and to perform petroleum and water management functions.

Instruction: *Version 1* This version is pending evaluation. Lectures and practical exercises in general petroleum subjects: basic laboratory subjects and tests; chemical laboratory tests; petroleum supply operations; terminal operations; and pipeline operations. *Version 2* Lectures and practical exercises in general petroleum subjects; basic laboratory subjects and tests; chemical laboratory tests; petroleum supply operations; terminal operations; and pipeline operations.

Credit Recommendation: *Version 1* Pending evaluation. *Version 2* In the upper-division baccalaureate category, 3 semester hours in petroleum supply management or materials management and 2 in petroleum laboratory techniques (2/93).

AR-1606-0006

FLIGHT SIMULATOR (UH1FS) SPECIALIST
(Flight Simulator (2B24) Specialist)

Course Number: 191-ASIF8; 191-F1.

Location: Aviation Center, Ft. Rucker, AL.

Length: 2-3 weeks (91 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide enlisted personnel with the knowledge to perform as synthetic flight training system (2B24 or UH1FS) console operators in order to provide instruction in instrument flight techniques to rotary wing rated Army aviators.

Instruction: Practical exercises and programmed instruction in the synthetic flight training system, UH1FS or 2B24.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/86).

Related Occupations: 93D; 93J.

AR-1606-0047

OH-58 INSTRUCTOR PILOT
(OH-58 Transition/Gunnery Instructor Pilot (IP) Qualification)

Course Number: 2C-F23.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4-5 weeks (150 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train selected and qualified pilots as instructor pilots in the OH-58 helicopter.

Instruction: Flight and academic training in day/night visual flight rules; before-flight, basic-flight, approach/landing, and emergency tasks; application of principles and techniques of flight instruction; aircraft systems and maintenance; principles and methods of instruction.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in basic aerodynamics and theory of flight, 3 in basic helicopter flight and systems, 3 in principles and methods of instruction, and credit for flight training on the basis of institutional evaluation (11/86).

Related Occupations: 100B; 100C; 100D; 100E; 102A.

AR-1606-0053

UH-1 CONTACT INSTRUCTOR PILOT
(UH-1 Instructor Pilot)

Course Number: 2C-ASI5K/2C SQIC.

Location: Aviation Center, Ft. Rucker, AL.

Length: 6 weeks (225 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train selected and qualified pilots as instructor pilots in the UH-1 helicopter.

Instruction: Lectures and practical training in day visual flight rules/night UH-1, before-flight, basic flight, approach/landing, and emergency tasks; application of principles and techniques of flight instruction; aircraft systems and maintenance.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principals and methods of instruction (11/86).

Related Occupations: 100B; 100C; 100D; 100E; 102A.

AR-1606-0058

AH-1S AVIATOR QUALIFICATION
(AH-1G Aviator Qualification)

Course Number: 2C-AS11M/2C-100E.

Location: Aviation Center, Ft. Rucker, AL.

Length: 6-7 weeks (251-254 hours).

Exhibit Dates: 1/90-Present.

Objectives: To qualify rated pilots with transition training on AH-1G (Cobra) or AH-1S type helicopters.

Instruction: Lectures and practical exercises in transition flight training on AH-1S helicopters, including preflight inspections, ground procedures, night operations, instrument flying, regulations, flight planning, maintenance procedures, and principles of aerodynamics.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in basic aerodynamics and theory of flight, 3 in basic helicopter flight and systems, and credit for flight training on the basis of institutional evaluation (6/87).

Related Occupations: 100E.

AR-1606-0064

CH-47B/C AVIATOR QUALIFICATION
(CH-47 Aviator Qualification)
(CH-47 (Chinook) Pilot Transition)

Course Number: 2C-ASI 1G-B/2C-100C-B; 2C-SI1G/2C-154B; 2C-ASI 1G-D/2C-100C-D.

Location: Aviation Center, Ft. Rucker, AL.

Length: 2-7 weeks (108-315 hours).

Exhibit Dates: 1/90-Present.

Objectives: To qualify rated pilots with transition training on CH-47 (Chinook) type helicopters.

Instruction: Lectures and practical exercises in transition flight training on CH-47 aircraft, including preflight inspection, ground procedures, night operations, instrument flying, regulations, flight planning and maintenance procedures.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in basic aerodynamics and theory of flight, 3 in basic helicopter flight and systems, and credit for flight training on the basis of institutional evaluation (11/86).

Related Occupations: 100B; 100C; 102A.

AR-1606-0074

OFFICER/WARRANT OFFICER ROTARY WING
AVIATOR
(Warrant Officer Candidate Rotary Wing Aviator)

Course Number: 2C-15B/2C-100B-B; 2C-15B; 2C-100-B; 2C-15ABX; 2C-100B-B; 2C-

15A; 2C-100G; 2C-100B-C; 2C-1981-B; 2C-062B-B; 1-H-1981B; 1-H-062B; 1-H-062C; 1-R-062B-C; 1-R-062C-C; 1-B-1981B; 1-A-1981B; 1-R-1981C; 1-N-1981C.

Location: Aviation School, Ft. Rucker, AL; Primary Helicopter School, Ft. Wolters, TX.

Length: 28-36 weeks (904-1472 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train selected and qualified officers and warrant officers in primary rotary wing flying techniques and helicopter use.

Instruction: Flight experience and lectures on aerodynamics, meteorology, navigation, aircraft maintenance, instrument flight theory, and aviation physiology. This course is equivalent to private and commercial pilot requirements.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in primary helicopter flight training subjects, 3 for flight experience, 3 in aerodynamics, 3 in meteorology, 3 in navigation, 3 in aircraft maintenance, and 3 in aviation physiology (11/86).

Related Occupations: 100B.

AR-1606-0133

UH-60 AVIATOR QUALIFICATION

Course Number: 2C-ASI IN.

Location: Aviation Center, Ft. Rucker, AL.

Length: 6 weeks (241 hours).

Exhibit Dates: 1/90-Present.

Objectives: To qualify rated pilots with training on UH-60 helicopters.

Instruction: Flight and academic instruction in the UH-60 helicopter, maneuvers, combat skills, and pilot night vision goggles.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in basic aerodynamics and theory of flight, 3 in basic helicopter flight and systems, and credit for flight training on the basis of institutional evaluation (11/86).

Related Occupations: 100B.

AR-1606-0139

NIGHT VISION GOGGLE (NVG) AN/PVSS
METHODS OF INSTRUCTION

Course Number: None.

Location: Aviation Center, Ft. Rucker, AL.

Length: 2-3 weeks (77-78 hours).

Exhibit Dates: 1/90-1/90.

Objectives: To train selected rotary wing instructor pilots as night vision goggle instructor pilots.

Instruction: Topics include night visual goggle flight training and night academics.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/86).

AR-1606-0144

SPECIAL FORCES DIVING SUPERVISOR

Course Number: None.

Location: Institute for Military Assistance, Ft. Bragg, NC.

Length: 3-4 weeks (122 hours).

Exhibit Dates: 1/90-4/92.

Objectives: To train Special Forces commissioned and noncommissioned officers as diving supervisors.

Instruction: Course concentrates on diving plans, preparation and supervision.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (4/83).

AR-1606-0161

OH-58D AVIATOR QUALIFICATION

Course Number: 2C SI 1A/2C-152D; 2C-ASI1A/2C-152D.

Location: Aviation Center, Ft. Rucker, AL.

Length: 7-8 weeks (293-302 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train commissioned and warrant officer rotary wing aviators as OH-58D pilots.

Instruction: Classroom and practical instruction in aircraft systems, flight training, communications, navigation, mast-mounted sight, airborne target handover systems, mission planning and safety.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in basic aerodynamics and theory of flight, 3 in basic helicopter flight and systems, and credit for flight training on the basis of institutional evaluation (11/86).

Related Occupations: 152D.

AR-1606-0163

AEROSPACE MEDICINE RESIDENCY FLIGHT TRAINING

Course Number: None.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4-5 weeks (165 hours).

Exhibit Dates: 1/90–Present.

Objectives: To familiarize resident physicians with turbine-powered aircraft systems, rotary-wing flight principles, and operation.

Instruction: Training in electrical system, powerplant and related systems, fuel systems, rotor systems, powertrain systems, flight control system, weight and balance; flight training on the UH-1 helicopter.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft systems (11/86); in the upper-division baccalaureate category, 3 semester hours in basic aerodynamics and theory of flight, 3 in basic helicopter flight and systems, and credit for flight training on the basis of institutional evaluation (11/86).

AR-1606-0165

OH-58 AEROSCOU INSTRUCTOR PILOT METHODS OF INSTRUCTION

Course Number: None.

Location: Aviation Center, Ft. Rucker, AL.

Length: 10-12 weeks (397-420 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train commissioned and warrant officer aviators as OH-58 instructor pilots for contact, night, night vision goggles, and aeroscout flying.

Instruction: Classroom and practical training in day/night flying, and in principles and techniques of flight instruction, aircraft systems, combat skills, aeromedical factors, and night vision goggles.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in basic aerodynamics and theory of flight, 3 in basic helicopter flight and systems, 3 in principles and methods of instruction, and credit for flight training on the basis of institutional evaluation (11/86).

AR-1606-0166

ROTARY WING AVIATOR REFRESHER TRAINING

Course Number: 2C-F31.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4-6 weeks (151-221 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train, refresh, and requalify rotary wing aviators returning to flying status from non-flying assignments.

Instruction: Classroom and practical exercises in UH-1 helicopter systems and flight training sequences.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (3/89).

AR-1606-0168

AH-64 INSTRUCTOR PILOT

Course Number: 2C-F36.

Location: Aviation Center, Ft. Rucker, AL.

Length: 16-17 weeks (659 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide training in flight and academic instruction for the AH-64 helicopter, and teaching and evaluating AH-64 flight training.

Instruction: Topics include flight and academic instruction in AH-64 helicopter contact flying skills, gunnery, target acquisition and designation sight, combat skills, pilot night vision sensor system, and methods of instructing and evaluating AH-64 flight training.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in basic aerodynamics and theory of flight, 3 in basic helicopter flight systems, 3 in principles and methods of instruction, and credit for flight training on the basis of institutional evaluation (11/86).

AR-1606-0169

OH-58D FIELD ARTILLERY AERIAL OBSERVER

Course Number: 2E-F109.

Location: Aviation Center, Ft. Rucker, AL.

Length: 5-6 weeks (203-207 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train personnel to perform field artillery aerial observer duties on the OH-58D helicopter.

Instruction: Classroom and practical training in aerial observation including aircraft systems, avionics, mast-mounted sight, airborne handover systems, aircraft handling, mission planning and safety.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (12/86).

AR-1606-0170

AVIATION OFFICER BASIC

Course Number: 2-1-C20.

Location: Aviation Center, Ft. Rucker, AL.

Length: 9-10 weeks (366-367 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide newly commissioned aviation specialty officers with common military and arms training.

Instruction: Consists of lectures and practical exercises in common task skills, leadership, and arms.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 1 in technical writing (6/88).

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (6/88).

AR-1606-0171

AVIATION OFFICER ADVANCED

Course Number: 2-1-C22.

Location: Aviation Center, Ft. Rucker, AL.

Length: 20 weeks (716 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide commissioned officers with advanced training in military subjects.

Instruction: Lectures and practical exercises in military subjects, leadership, management, technical writing skills, and combat planning.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in technical writing (4/90); in the upper-division baccalaureate category, 3 semester hours in principles of management (4/90).

AR-1606-0172

NIGHT/NIGHT VISION GOGGLE INSTRUCTOR PILOT

Course Number: 2C-F37.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4-5 weeks (115 hours).

Exhibit Dates: 1/90–Present.

Objectives: To qualify selected rotary wing instructor pilots as night vision goggle instructor pilots.

Instruction: Topics include night visual goggle flight training and night academics.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/86).

AR-1606-0173

AVIATION PRE-COMMAND

Course Number: 2G-F42.

Location: Aviation Center, Ft. Rucker, AL.

Length: 2-3 weeks (78-110 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide update and refresher training in Army aviation subjects.

Instruction: Training in tactics, training management, maintenance and logistics, safety, aviation medicine, fire support, communications-electronics, NBC trends, and general military subjects.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/88).

AR-1606-0174

AVIATION SAFETY OFFICER

Course Number: Version 1: 7K-F-12. Version 2: 7K-F-12.

Location: Safety Center, Ft. Rucker, AL.

Length: Version 1: 6 weeks (221 hours). Version 2: 6 weeks (183-186 hours).

Exhibit Dates: Version 1: 10/93–Present. Version 2: 1/90–9/93.

Learning Outcomes: Version 1: Upon completion of this course, the student will demonstrate an understanding of the management system, and the safety professional's role in accident prevention; and be able to gain the support of management in developing safety and accident prevention programs. The student will also be able to establish countermeasures and control measures for system defects using evaluations and survey data; be able to initiate a safety program to fully implement all safety

program requirements; be able to evaluate pre-accident plans; and have a working knowledge of OSHA Safety and Health Standards. Student will identify risks associated with particular operations and will have the ability to weigh these risks against overall training value to be gained. *Version 2:* Upon completion of this course, the student will demonstrate an understanding of the management system, and the safety professional's role in accident prevention; and be able to gain the support of management in developing safety and accident prevention programs. The student will also be able to establish countermeasures and control measures for system defects using evaluations and survey data; be able to initiate a safety program to fully implement all safety program requirements; be able to evaluate pre-accident plans, and have a working knowledge of OSHA Safety and Health Standards. Student will identify risks associated with particular operations and will have the ability to weigh these risks against overall training value to be gained.

Instruction: *Version 1:* Lectures, demonstrations, and practical exercises in industrial safety and accident prevention. *Version 2:* Lectures, demonstrations, and practical exercises in industrial safety and accident prevention.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in principles of industrial safety, 3 in safety engineering, and 1 in risk management (6/95). *Version 2:* In the upper-division baccalaureate category, 3 semester hours in principles of industrial safety, 3 in safety engineering, and 3 in risk management (3/88).

AR-1606-0175

COMBAT INTELLIGENCE

Course Number: INT 3; INT 3-OE.

Location: Combined Arms Training Center, Vilsack, W. Germany.

Length: 3 weeks (108-114 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the duties of an intelligence officer/non-commissioned officer in a battalion or a brigade; prepare information reports based on the process of planning, collecting, processing, and disseminating data; analyze and collate information from multiple sources; write periodic reports and summary reports based on information as collected; read maps and determine influence of terrain for military operations; maintain journal and workbook of activities; develop a situation map overlay; coordinate surveillance activities; prepare and present oral briefings; develop and implement security measures, with emphasis on personnel security and security of documents.

Instruction: Lectures, conferences, demonstrations, and seminar classes, with applications of learnings in practical exercises and a comprehensive simulation exercise; the student functions in an intelligence role within the simulated situation.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/88).

AR-1606-0176

SPECIAL FORCES OPERATIONS AND INTELLIGENCE

Course Number: 244-ASIF1.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 16 weeks (666 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will perform operations and intelligence missions; advise and train in military operations; coordinate air/ground, nautical missions; develop and exploit intelligence information; understand principles of security and threats; work with Special Forces reporting systems.

Instruction: Lectures, discussions, and command post exercises on topics including psychological operations in air/land battle, support of unconventional warfare, cross-cultural communication, impact of terrorism, US foreign policy, legal aspects of unconventional warfare, photography and map assessment, area studies, intelligence publications, mission planning process, clandestine operations, Soviet military structure and capabilities, intelligence collection and interpretation, and foreign internal defense.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in photography, 1 in map interpretation, and 1 in communications (12/88); in the upper-division baccalaureate category, 1 semester hour in cross-cultural communication, 2 in psychology, 2 in Soviet studies, 1 in social science, 2 in public administration, 1 in political science and 2 in police administration (12/88).

AR-1606-0177

SPECIAL FORCES COMBAT DIVING SUPERVISOR

Course Number: 2E-F65/011-ASIS6; 2E-F65/011-F23.

Location: Naval Air Station, Key West, FL; John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 2-4 weeks (79-120 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to plan, prepare, and conduct dives; conduct inspections and postdiving checks; teach use of closed- and open-circuit apparatus; teach emergency medical treatment; teach field repair of equipment and handling of air/O₂ systems; teach utilization of dive tables, tide and current charts; and teach submarine and chamber operations.

Instruction: Lectures, demonstrations, and laboratory participation involving the supervision of combat diving.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester in advanced scuba diving and 1 in scuba instruction (10/91).

AR-1606-0178

CH-47D AVIATOR QUALIFICATION

Course Number: 2C-SI 1B/2C-154C.

Location: Aviation Center, Ft. Rucker, AL.

Length: 10 weeks (371 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be qualified as a rotary wing pilot of a CH-47D helicopter.

Instruction: Lecture and practical exercise in flight training on the CH-47D helicopter, including preflight, night operation, emergency procedures, engine and power train systems, fuel and flight minor maintenance procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft systems and 3 in helicopter flight training (4/90).

AR-1606-0179

AH-64 AVIATOR QUALIFICATION

Course Number: 2C-SH1/2C-152F.

Location: Aviation Center, Ft. Rucker, AL.

Length: 10 weeks (430 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be qualified as a pilot of an AH-64 rotary wing aircraft.

Instruction: Instruction in the basic AH-64 helicopter systems that include weapon systems, airframe, electrical, fuel, hydraulic, caution/warning, pressurized air, digital stabilization, fault location, the Modular Forward Looking Infrared and the Integrated Helmet and Sighting system, navigation systems, flight instrumentation as well as flight instruction.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft systems and 3 in helicopter flight training (4/90).

AR-1606-0180

ROTARY WING QUALIFICATION

Course Number: 2C-AS11Q/2C-100B-D.

Location: Aviation Center, Ft. Rucker, AL.

Length: 11-12 weeks (372 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will transition from an accomplished fixed wing aircraft pilot to the UH-1 rotary wing aircraft pilot.

Instruction: Lecture and practical exercises for officer/warrant officer transition to the UH-1 rotary wing aircraft, including flight training, basic flight subjects, maintenance procedures, tactical flight procedures, navigation, instrument flight, and recognition of hostile action.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter flight training and 3 in helicopter systems (4/90).

AR-1606-0181

INITIAL ENTRY ROTARY-WING AVIATOR COMMON CORE

Course Number: 2C-OH-58/UH-1/AH-1/HU-60.

Location: Aviation Center, Ft. Rucker, AL.

Length: 20 weeks (764 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform at the level of private pilot on rotorcraft helicopters.

Instruction: Lectures and practical exercises in basic rotary-wing flight maneuvers, normal and emergency procedures, flight planning, basic instruments, and associated safety considerations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in flight regulations, 3 in aircraft navigation (visual), 3 in aviation meteorology, 3 in aircraft engines and systems, 3 in physiology of flight, 3 in aircraft performance, and 6 in private pilot flight training (helicopter) (4/90).

AR-1606-0182

INITIAL ENTRY ROTARY-WING AVIATOR (UH-60)

Course Number: 2C-SI 1N/2C-153D (UH-60).**Location:** Aviation Center, Ft. Rucker, AL.**Length:** 18-19 weeks (665 hours).**Exhibit Dates:** 1/90-Present.**Learning Outcomes:** Upon completion of the course, the student will be able to perform at the level of private pilot on rotorcraft helicopters.**Instruction:** Lectures and practical exercises in advanced rotary-wing flight maneuvers, normal and emergency procedures, instrument flight planning, advanced instruments, and associated safety considerations.**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft navigation (instrument), 3 in cockpit procedures training (helicopter), 3 in instrument rating (helicopter), and 6 in commercial pilot flight training (helicopter) (4/90).**Related Occupations:** 153D.**AR-1606-0183**

INITIAL ENTRY ROTARY-WING AVIATOR (UH-1)

Course Number: 2C-SI 1E/2C-153B (UH-1).**Location:** Aviation Center, Ft. Rucker, AL.**Length:** 16-17 weeks (572 hours).**Exhibit Dates:** 1/90-Present.**Learning Outcomes:** Upon completion of the course, the student will be able to perform at the level of private pilot on rotorcraft helicopters.**Instruction:** Lectures and practical exercises in advanced rotary-wing flight maneuvers, normal and emergency procedures, instrument flight planning, advanced instruments, and associated safety considerations.**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft navigation (instrument), 3 in cockpit procedures training (helicopter), 3 in instrument rating (helicopter), and 6 in commercial pilot flight training (helicopter) (4/90).**Related Occupations:** 153B.**AR-1606-0184**

INITIAL ENTRY ROTARY-WING AVIATOR (OH-58)

Course Number: 2C-SI 1D/2C-152B (OH-58).**Location:** Aviation Center, Ft. Rucker, AL.**Length:** 16-17 weeks (592 hours).**Exhibit Dates:** 1/90-Present.**Learning Outcomes:** Upon completion of the course, the student will be able to perform at the level of private pilot on rotorcraft helicopters.**Instruction:** Lectures and practical exercises in advanced rotary-wing flight maneuvers, normal and emergency procedures, instrument flight planning, advanced instruments, and associated safety considerations.**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft navigation (instrument), 3 in cockpit procedures training (helicopter), 3 in instrument rating (helicopter), and 6 in commercial pilot flight training (helicopter) (4/90).**Related Occupations:** 152B.**AR-1606-0185**

INITIAL ENTRY ROTARY-WING AVIATOR (AH-1)

Course Number: 2C-SI 1M/2C-152G (AH-1).**Location:** Aviation Center, Ft. Rucker, AL.**Length:** 20-21 weeks (772 hours).**Exhibit Dates:** 1/90-Present.**Learning Outcomes:** Upon completion of the course, the student will be able to perform at the level of private pilot on rotorcraft helicopters.**Instruction:** Lectures and practical exercises in advanced rotary-wing flight maneuvers, normal and emergency procedures, instrument flight planning, advanced instruments, and associated safety considerations.**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft navigation (instrument), 3 in cockpit procedures training (helicopter), 3 in instrument rating (helicopter), and 6 in commercial pilot flight training (helicopter) (4/90).**Related Occupations:** 152G.**AR-1606-0186**

AEROSCOUT OBSERVER

Course Number: 600-93B10.**Location:** Aviation Center, Ft. Rucker, AL.**Length:** 14-15 weeks (556 hours).**Exhibit Dates:** 1/90-Present.**Learning Outcomes:** Upon completion of the course, the student will be able to perform the duties of aeroscout observer in the OH-58A/C helicopter.**Instruction:** Includes lectures and practical sessions in map reading, nontactical navigation, combat operations, target identification, aerial adjustment of artillery, nuclear, biological and chemical threats, night vision devices, fundamentals of aviation medicine, communication procedures, extensive aeroscout observer flight training that includes very low level and high altitude operations as well as emergency aircraft piloting instruction, aircraft systems, survival, evasion, resistance, and escape practices.**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in aerial navigation, 1 in helicopter flight instruction (4/90).**AR-1606-0187**

AEROSCOUT OBSERVER BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 600-93B30.**Location:** Aviation Center, Ft. Rucker, AL.**Length:** 5 weeks (209 hours).**Exhibit Dates:** 10/90-Present.**Learning Outcomes:** Upon completion of the course, the student will be able to employ tactical operations consistent with aeroscout procedures.**Instruction:** Lectures to prepare the non-commissioned officer for tactical operations, field exercises, aviation-related tasks, aeroscout procedures, and operations procedures.**Credit Recommendation:** Credit is recommended for the common core only. See AR-1406-0090 (4/90).**Related Occupations:** 93B.**AR-1606-0188**

OH-58 A/C FIELD ARTILLERY AERIAL OBSERVER

Course Number: 2E-F108.**Location:** Aviation Center, Ft. Rucker, AL.**Length:** 7 weeks (274 hours).**Exhibit Dates:** 1/90-Present.**Learning Outcomes:** Upon completion of the course, the student will be able to serve as a field artillery officer in the performance of OH-58 A/C helicopter systems operation, target identification and location, and aerial navigation.**Instruction:** Topics include aerial navigation, radio procedures, practices and safety considerations in terrain following flights, combat and target identification, night operations, aviation medicine, and practical emergency pilot training.**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 1 semester hour in helicopter flight instruction (4/90).**AR-1606-0189**

CH-47D FLIGHT ENGINEER INSTRUCTOR

Course Number: 600-ASIN1.**Location:** Aviation Center, Ft. Rucker, AL.**Length:** 6 weeks (253 hours).**Exhibit Dates:** 1/90-Present.**Learning Outcomes:** Upon completion of the course, the student will be able to serve as flight engineer instructors for the CH-47D helicopter.**Instruction:** Lecture and practical exercises in preflight, inflight, and postflight tasks. In depth coverage of aircraft systems included, in addition to tactical light training tasks, physiology of flight, and aviation safety. Receives training in academic and flight methods of instruction.**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in methods of instruction, 2 in advanced aircraft systems, and 2 in inflight procedure training (4/90).**AR-1606-0190**

ROTARY WING INSTRUMENT FLIGHT EXAMINER

Course Number: 2C-SI1V/2C-SQIF.**Location:** Aviation Center, Ft. Rucker, AL.**Length:** 7-8 weeks (303 hours).**Exhibit Dates:** 1/90-Present.**Learning Outcomes:** Upon completion of the course, the student will be able to train selected current and qualified flight instructors as instrument flight examiners.**Instruction:** Lecture and practical exercises in helicopter basic and advanced instrument flight and emergency tasks and instructor/examiner techniques. Includes coverage of regulations, flight planning, air traffic control, approach criteria, cockpit communications, and fundamentals of instruction.**Credit Recommendation:** In the upper-division baccalaureate category, 3 semester hours in airline transport pilot (helicopter), and 3 in advanced instruction techniques (helicopter) (4/90).**AR-1606-0191**

IMAGERY ANALYST BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: Version 1: 242-96D30. Version 2: 242-96D30.**Location:** Intelligence School, Ft. Huachuca, AZ.

Length: *Version 1:* 8-9 weeks (306 hours)
Version 2: 6-7 weeks (236 hours)

Exhibit Dates: *Version 1:* 9/92–Present
Version 2: 1/90–8/92

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to identify, plot, measure, and analyze remotely sensed data and images including conventional photographs, infrared, radar, and electro-optical sensors; to input data into computer-based files; to use the computer to record, store, sort, transmit, and display aerial data; manipulate and maintain a data base and generate displays of computer graphics. *Version 2:* Upon completion of the course, the student will be able to identify, plot, measure, and analyze remotely sensed data and images including conventional photographs, infrared, radar, and electro-optical sensors; to input data into computer-based files; to use the computer to record, store, sort, transmit, and display aerial data; manipulate and maintain a data base and generate displays of computer graphics.

Instruction: *Version 1:* Instruction is achieved through small class instruction, laboratory, and practical exercises. Topics include basic map reading, photo and image interpretation, computer-assisted cartography, and the creation of geographic information systems. *Version 2:* Instruction is achieved through small class instruction, laboratory, and practical exercises. Topics include basic map reading, photo and image interpretation, computer-assisted cartography, and the creation of geographic information systems.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in displays of geographic information. See AR-1406-0090 for common core credit (6/90); in the upper-division baccalaureate category, 3 semester hours in geographic information systems (6/90).

AR-1606-0192

INTELLIGENCE ANALYST BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 243-96B30.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 6-7 weeks (180-270 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify types of intelligence reports and their uses; practice basic training techniques; and supervise selected field maintenance tasks.

Instruction: Lectures, practical exercises and simulations in intelligence reports review.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/92).

AR-1606-0193

IMAGERY ANALYST

Course Number: *Version 1:* 242-96D10.
Version 2: 242-96D10.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: *Version 1:* 16 weeks (664 hours).
Version 2: 16-18 weeks (583-648 hours).

Exhibit Dates: *Version 1:* 8/92–Present.
Version 2: 1/90–7/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to

read and interpret large scale maps and aerial photographs, radar and infrared images; write reports; and identify transportation and communication routes. This version is pending evaluation. *Version 2:* Upon completion of the course, the student will be able to read and interpret large scale maps and aerial photographs, radar and infrared images; write reports; and identify transportation and communication routes.

Instruction: *Version 1:* Instruction is achieved through classroom and laboratory exercises. This version is pending evaluation. *Version 2:* Instruction is achieved through classroom and laboratory exercises.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in displays of geographic information (6/90); in the upper-division baccalaureate category, 3 in aerial photo interpretation and 3 in remote sensing (6/90).

AR-1606-0194

MILITARY INTELLIGENCE OFFICER ADVANCED (IMAGERY EXPLOITATION)

Course Number: 3-30-C22-35C.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 6-10 weeks (240-360 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to apply the techniques and skills of aerial imagery analysis, including measuring features in aerial photographs; using the aerial slide rule and/or calculator; transferring features between maps and aerial photographs; identifying communication and transportation arteries; using image keys; and analyzing radar and multispectral images.

Instruction: Instruction is achieved through small classes with an emphasis on laboratory and practical exercises.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in aerial photograph interpretation and 3 in remote sensing (6/90).

AR-1606-0195

SENIOR WARRANT OFFICER TRAINING RESERVE COMPONENT

(Military Intelligence Warrant Officer Reserve Component)

Course Number: 3-30-C32-RC.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 1-2 weeks (88-96 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify specific computer hardware; identify Warsaw pact nations; identify other world threats; recognize the collection management process.

Instruction: Lectures on world threats and computer awareness.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/90).

AR-1606-0196

MILITARY INTELLIGENCE OFFICER ADVANCED COMMON CORE

Course Number: *Version 1:* C-30-C22-35.
Version 2: C-30-C22-35.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: *Version 1:* 20 weeks (795 hours)
Version 2: 9 weeks (411 hours).

Exhibit Dates: *Version 1:* 10/91–Present.
Version 2: 1/90–9/91

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform military intelligence operations including advanced threat analysis and staff and management functions; make decisions on the basis of intelligence data; and write effectively. This version is pending evaluation. *Version 2:* Upon completion of the course, the student will be able to perform military intelligence operations including advanced threat analysis and staff and management functions; make decisions on the basis of intelligence data; and write effectively.

Instruction: *Version 1:* Instruction includes leadership and management, effective writing, military history, geopolitical studies of conflict areas. Students participate in computer simulations of a warfare system. Players make decisions as they would in the field, involving attack and counterattack. Data analysis and resulting decisions are the major skills developed in this intensive 60 hour exercise. This version is pending evaluation. *Version 2:* Instruction includes leadership and management, effective writing, military history, geopolitical studies of conflict areas. Students participate in computer simulations of a warfare system. Players make decisions as they would in the field, involving attack and counterattack. Data analysis and resulting decisions are the major skills developed in this intensive 60 hour exercise.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in technical writing (6/90); in the upper-division baccalaureate category, 3 semester hours in simulation exercise in decision making, 1 in principles of personnel and organizational management, and 2 in international studies in areas of conflict (6/90).

AR-1606-0197

MILITARY INTELLIGENCE PRE-COMMAND

Course Number: 2G-F41.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 2 weeks (79 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will be familiar with general military subjects; recognize the role of various officers and command titles; will be updated on military intelligence.

Instruction: Lectures, discussions and forums on the subject matter.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (6/90).

AR-1606-0198

INTERROGATOR BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 241-97E30.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 5-7 weeks (197-259 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will understand military

vocabulary and job-specific language skills and prepare battlefield intelligence.

Instruction: Lectures and practical exercises on the subject matter.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (9/92).

AR-1606-0199

INTERROGATION TECHNICAL WARRANT OFFICER
TECHNICAL/TACTICAL CERTIFICATION
(Warrant Officer Technical/Tactical Certification Phase 2 MOS 351E Interrogation Technician)

Course Number: 3A-351E.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 2-3 weeks (89-94 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform all phases of interrogation; be aware of interrogation reports; and know the role of interrogation technician.

Instruction: Lectures and simulation exercises comprise the methods of instruction.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/90).

AR-1606-0200

IMAGERY INTELLIGENCE TECHNICIAN WARRANT
OFFICER TECHNICAL/TACTICAL
CERTIFICATION

(Warrant Officer Technical/Tactical Certification Phase 2 350D Imagery Intelligence Technician)

Course Number: 3A-350D.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 2-3 weeks (93 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be updated on technology and new equipment; be familiar with imagery intelligence materials; and perform selected types of imagery interpretation.

Instruction: Lectures and classroom exercises comprise the methods of instruction.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/90).

AR-1606-0201

WARRANT OFFICER TECHNICAL/TACTICAL
CERTIFICATION PHASE 2 MOS 351B
COUNTERINTELLIGENCE TECHNICIAN

Course Number: 3C-351B.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 2-3 weeks (87-97 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will understand basic field office management; recognize basic counterintelligence functional areas; and know the role of a counterintelligence technician.

Instruction: Lectures and simulation exercises are the methods of instruction.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (6/90).

Related Occupations: 351B.

AR-1606-0202

MILITARY INTELLIGENCE SENIOR WARRANT
OFFICER

Course Number: 3-30-C32.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 4-5 weeks (142-175 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be aware of technological changes and advanced concepts within the intelligence disciplines; be informed of world threats; and be aware of data processing principles.

Instruction: Lecture is the mode of instruction.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/91).

AR-1606-0203

AERIAL INTELLIGENCE SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 233-96H30.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 3-4 weeks (116 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will supervise the planning, employment, and training of aerial surveillance operations including visual/photo reconnaissance missions, survival/evasion/resistance/escape equipment use, and flightline operation.

Instruction: Instruction includes classroom and practical exercises in visual/photo reconnaissance, technical operations, and supervision.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (6/90).

Related Occupations: 96H.

AR-1606-0204

QUICKFIX 2 SYSTEM QUALIFICATION

Course Number: 2C-15C/2B-ASIB5.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 5-9 weeks (164-173 hours).

Exhibit Dates: 4/90–Present.

Learning Outcomes: Upon completion of the course, the student will perform flight mission profiles; identify the major characteristics of low intensity conflict; define terrorism; describe aerial exploitation; and define radar terms and operational concepts.

Instruction: Lectures and practical exercises on the above subjects.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/93).

AR-1606-0205

QUICKFIX 2 CREW CERTIFICATION

Course Number: 233-F15.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 3 weeks (111 hours).

Exhibit Dates: 4/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate the Quickfix II system during airborne exercises

and perform pre/post-flight procedures on the system.

Instruction: Lectures, demonstrations, and performance of in-flight procedures are the methods of instruction.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/90).

AR-1606-0207

GROUND SURVEILLANCE SYSTEM SUPERVISOR
(Ground Surveillance System Operator
Basic Noncommissioned Officer
(NCO))

Course Number: 231-96R30.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 5-6 weeks (182-234 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to function as a supervisor of ground surveillance system operators, select a site, perform ground surveillance mission planning, and program the sensor signal simulator.

Instruction: Lectures and practical exercises in the use of ground surveillance systems and the supervision of system operators.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (10/93).

Related Occupations: 96R.

AR-1606-0208

AERIAL INTELLIGENCE SPECIALIST

Course Number: 233-96H10.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 8-9 weeks (298-313 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will read maps and plot information on them; have a working knowledge of the operation and operator maintenance of airborne photographic and radar surveillance systems; and troubleshoot and make minor repairs to aerial surveillance systems.

Instruction: Small classes are held in hangars, classrooms, flightline and inflight.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to map reading (10/91).

AR-1606-0209

DIVER PRE-QUALIFICATION
(Diver Transition)

Course Number: 433-F2.

Location: Transportation School, Ft. Eustis, VA.

Length: 1-2 weeks (60 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to dive under controlled conditions not exceeding 30 feet.

Instruction: Lectures and practical experience within a controlled environment. Includes signals, equipment, and safety procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic diver (PAD) certification (6/91).

AR-1606-0210

SPECIAL FORCES ASSISTANT OPERATIONS AND
INTELLIGENCE SERGEANT

Course Number: *Version 1:* 011-18F40
Version 2: 011-18F40

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC

Length: *Version 1:* 16 weeks (699 hours)
Version 2: 13 weeks (585 hours)

Exhibit Dates: *Version 1:* 10/93–Present
Version 2: 10/92–9/93

Learning Outcomes: *Version 1:* Upon completion of the course, the student will perform operations and intelligence missions, advise and train in military operations, coordinate air/ground nautical missions, develop and exploit intelligence information, and understand the principles of security. *Version 2:* Upon completion of the course, the student will perform operations and intelligence missions, advise and train in military operations, coordinate air/ground nautical missions, develop and exploit intelligence information, and understand the principles of security.

Instruction: *Version 1:* Lectures, discussions, and command post exercises in topics including psychological operations in air/land battles, support of unconventional warfare, cross cultural communications, impact of terrorism, area studies, and the US foreign policy. *Version 2:* Lectures, discussions, and command post exercises in topics including psychological operations in air/land battles, support of unconventional warfare, cross cultural communications, impact of terrorism, area studies, and the US foreign policy.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in photography, 1 in communications, and 1 in map interpretation (12/92); in the upper-division baccalaureate category, 2 semester hours in cross cultural communications, 2 in psychology, 2 in social science, 2 in political science, and 2 in public administration (12/92). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in photography, 1 in communication, and 1 in map interpretation (12/92); in the upper-division baccalaureate category, 1 semester hour in cross cultural communication, 2 in psychology, 3 in social science, 2 in political science, and 2 in public administration (12/92).

AR-1606-0211

SPECIAL FORCES ASSISTANT OPERATIONS AND
INTELLIGENCE SERGEANT RESERVE
COMPONENT PHASE 2

Course Number: Phase 2, 011-18F40-RC.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 2-3 weeks (121 hours).

Exhibit Dates: 10/93–Present.

Learning Outcomes: Upon completion of the course, the student will be able to support Special Forces missions, coordinate air/ground/nautical missions, and analyze maps and support air land battle.

Instruction: Lectures, seminars, simulation, and discussion on Special Forces operations, map interpretation, role of Special Forces in air land battle.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in map interpretation, 1 in political sci-

ence, 1 in psychology, and 1 in social science (12/92).

AR-1606-0212

SPECIAL FORCES ASSISTANT OPERATIONS AND
INTELLIGENCE SERGEANT RESERVE
COMPONENT PHASE 4

Course Number: Phase 4, 011-18F40-RC

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC

Length: 2-3 weeks (158 hours)

Exhibit Dates: 10/93–Present

Learning Outcomes: Upon completion of the course, the student will be able to perform intelligence functions in support of Special Forces mission; analyze an opponents military organization, and conduct clandestine operations.

Instruction: Lectures, seminars, special conferences on intelligence. Written reports and oral presentation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in photo interpretation and 1 in communication (12/92); in the upper-division baccalaureate category, 2 semester hours in social science (electives) (12/92).

AR-1701-0003

UTILITIES EQUIPMENT REPAIRER

Course Number: 662-52C10.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 15-16 weeks (562 hours).

Exhibit Dates: 10/90–Present.

Objectives: Upon completion of the course, the student will understand the theory and concepts of basic electricity and its function in power equipment. Also the student will understand the theory of refrigeration systems, service procedures, and diagnosis and troubleshooting techniques.

Instruction: Lecture presentations on electrical and refrigeration theory and demonstrations using tools and test equipment on appropriate components. Extensive hands-on experience practicing service manual repair procedures and troubleshooting techniques is provided for.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in general shop practice, 2 hours in basic electricity, 3 in basic air conditioning, and 3 in air conditioning and refrigeration service (12/90).

AR-1702-0003

UTILITIES EQUIPMENT REPAIRER

Course Number: 662-52C10.

Location: Engineer School, Ft. Belvoir, VA.

Length: 11 weeks (393 hours).

Exhibit Dates: 1/90–9/90.

Objectives: To train enlisted personnel to operate and maintain gas turbine engines and multi-output package equipment.

Instruction: Conferences and practical exercises in diagnostic procedures, maintenance and repair of gas turbine engines, refrigeration, air-conditioning and heater equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in introduction to electricity, 2 in air-conditioning and refrigeration (9/79).

Related Occupations: 52C

AR-1703-0026

FUEL AND ELECTRICAL SYSTEMS REPAIRER

Course Number: 610-63G10/610-3524

Location: Ordnance Center and School, Aberdeen Proving Ground, MD

Length: 4-14 weeks (158-508 hours).

Exhibit Dates: 1/90–Present

Learning Outcomes: Upon completion of the course, the student will understand fundamental operating principles of automotive fuel and electrical systems, use of electrical and electronic automotive test equipment, and basic maintenance of fuel and electrical systems on gasoline and diesel engines in automotive or stationary applications.

Instruction: Instruction includes applied electricity, ignition, starting, and charging systems; gasoline and diesel fuel systems, and hydraulic brake system component repair. Also includes carburetor repair, two barrel overhaul, injector pumps and injector nozzle, and power unit injector pump.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in automotive electrical systems, 3 in diesel fuel systems, and 3 in gasoline engine fuel systems (12/90); in the upper-division baccalaureate category, 5 semester hours in automotive engine diagnosis (12/90).

Related Occupations: 63G.

AR-1703-0027

WHEEL VEHICLE REPAIRER

Course Number: 610-63W10 (CT).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 13-16 weeks (481-582 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform maintenance on heavy equipment wheeled vehicles, including troubleshooting, removing, replacing, and adjusting transmissions, front and rear differentials, suspensions, steering, brakes, and engines.

Instruction: Lectures and practical exercises in shop practice using hand tools and measurement devices; introduction to the engine and its systems; troubleshooting and repair to the suspension and steering systems; replacing and adjusting transmissions and front and rear differentials; replacing fuel injection pump; troubleshooting and repairing of air and hydraulic brakes; troubleshooting and replacing charging and starting system components; emphasis on engine testing and repair; and basic heavy duty hydraulics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in heavy duty diesel, gas engine repair, 1 in heavy duty brakes, 1 in automotive electrical, 1 in heavy duty suspension and steering, 2 in heavy duty power trains, and 2 in heavy duty hydraulics (12/90).

Related Occupations: 63W.

AR-1703-0028

LIGHT WHEEL VEHICLE MECHANIC

Course Number: 610-63B10; 610-63B10(ST).

Location: Training Center, Ft. Jackson, SC; Training Center, Ft. Dix, NJ; Training Center,

Ft. Leonard Wood, MO; Training Center, Aberdeen Proving Ground, MD.

Length: 14-15 weeks (534-535 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform repairs on automotive wheel vehicles including engine troubleshooting and overhaul, electrical system repair and troubleshooting, brake system repair and troubleshooting, steering system repair and troubleshooting.

Instruction: Lectures and practical exercises in troubleshooting and repairing of engines, basic fuels, electrical, cooling systems, suspension and steering, brakes, preventive maintenance and recovery operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in automotive engine service, 3 in basic automotive electrical, 3 in automotive brakes, and 2 in automotive steering and suspension (12/90).

Related Occupations: 63B.

AR-1703-0029

LIGHT WHEEL VEHICLE MECHANIC BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 610-63B30 (CT); 610-63B30.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 12 weeks (427-428 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to select and use diagnostic equipment to troubleshoot and perform maintenance on wheeled and track vehicles and power generation equipment.

Instruction: Lectures and practical exercises in troubleshooting, repairing, and correcting disorders in engines, fuel (gas and diesel), electrical cooling systems, power trains, chassis and suspension systems, components of power generation equipment and wheeled and track equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in heavy equipment repair, 3 in power generation equipment repair and maintenance, and 7 in heavy equipment repair and maintenance of which 3 should be specifically in truck repair and maintenance. See AR-1406-0090 for common core credit (12/90).

Related Occupations: 63B.

AR-1703-0030

METAL WORKER
(Vehicle Body Mechanic)
(Vehicle Body Repairman)

Course Number: *Version 1:* 704-44B10 (USA); 704-44B10; 704-47233. *Version 2:* 704-44B10 (USA); 704-44B10; 704-47233.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 9-15 weeks (325-486 hours). *Version 2:* 9-15 weeks (325-486 hours).

Exhibit Dates: *Version 1:* 10/91-Present. *Version 2:* 1/90-9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to repair and install metal body components, radiators, and fuel tanks. Student will also be able to weld components and perform common maintenance tasks. *Version 2:* Upon completion

of the course, the student will be able to set up and use oxyacetylene, electric arc, and MIG and TIG welding equipment, and also perform auto-body repair.

Instruction: *Version 1:* Lectures and laboratory exercises in safety, oxyacetylene welding, MIG and TIG welding, metal body repair, arc welding, radiator repair, and glass replacement. *Version 2:* Lectures and practical exercises in the repair, oxyacetylene welding, inert gas welding, utilization of metal body repair tool and equipment, after operations checks, and trim, hardware, and glasswork. Also covers electric arc, and MIG and TIG welding, repair, repainting, installation and alignment of metal body components, instruction in care and use of tools and equipment.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in auto body repair and painting, 2 in shop safety and fundamentals, 3 in oxyacetylene welding; in addition, 3 semester hours in arc welding and 3 in MIG/TIG welding for Army personnel; 1 semester hour in arc welding and 2 in MIG/TIG welding for Marine Corps personnel; and 2 semester hours in arc welding for Air Force personnel (11/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in oxyacetylene, 2 in electric arc, 2 in MIG and TIG, 3 in auto body repair for Army personnel; 1 semester hour in oxyacetylene, 1 in electric arc, 3 in auto body repair for Air Force personnel; 2 in oxyacetylene, 1 in MIG and TIG, 3 in auto body repair for Marine Corps personnel (7/90).

Related Occupations: 44B.

AR-1703-0031

TRACK VEHICLE REPAIRER

Course Number: 611-63H10; 611-63H10 (CT).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 16-17 weeks (593-603 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to disassemble, inspect, assemble, and test various components and systems related to track vehicles.

Instruction: Lectures, demonstrations, and practical exercises in electrical systems, diesel and gasoline engines, fuel delivery systems, drive lines components, and hydraulic systems; principles of operation, troubleshooting, and the use of diagnostic test equipment is stressed.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in diesel engine systems, and 2 in automotive electrical systems (1/88).

Related Occupations: 63H.

AR-1703-0032

FIELD ARTILLERY VEHICLE MAINTENANCE
TECHNICIAN WARRANT OFFICER
ADVANCED

Course Number: 4-9-C32-630C.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 17 weeks (623 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to manage, maintain, and keep maintenance records on

field artillery vehicles. Also troubleshoot and make repairs on field artillery vehicles.

Instruction: Instruction includes lecture and hands-on with emphasis on management, maintenance management and communication skills. Considerable emphasis is placed on troubleshooting and repair on field artillery vehicles.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in communication skills, 1 in management, 3 in heavy equipment maintenance management, 1 in automotive electrical systems, 1 in hydraulics, and 5 in diesel and heavy equipment mechanics (3/87).

AR-1703-0033

ARMOR/CAVALRY MAINTENANCE TECHNICIAN
WARRANT OFFICER ADVANCED

Course Number: 4-9-C32-630D.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 19 weeks (700-745 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to manage, maintain and keep maintenance records on armor/cavalry equipment, troubleshoot and make repairs through a management position.

Instruction: Instruction includes lectures and hands-on with emphasis on management, maintenance management and communication skills, considerable emphasis is placed on troubleshooting and repair on armor/cavalry equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in communication skills, 1 in management, 1 in heavy equipment maintenance management, 1 in hydraulics, 1 in automotive electrical and 5 in diesel and heavy equipment mechanics (3/87).

AR-1703-0034

ORDNANCE OFFICER ADVANCED FIELD
MAINTENANCE MANAGEMENT

Course Number: 4N-FOA-F6.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 6 weeks (212 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to serve as an automotive maintenance manager.

Instruction: Lectures, demonstrations and practical exercises in maintenance procedures, principles of weapon systems, logistic support of land battles and Army supply systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in fundamentals of automotive maintenance (3/87).

AR-1703-0035

ORDNANCE OFFICER ADVANCED WHOLESALE
MAINTENANCE MANAGEMENT

Course Number: 4N-FOA-F7.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 6 weeks (212 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to serve as an automotive maintenance material manager.

Instruction: Instruction includes lectures, demonstrations, and practical exercises in maintenance procedures for various military vehicles, principles of weapons systems, supply procedures, budgeting, distribution and procurement procedures using computer assistance. Role playing and student developed program techniques are widely used to support classroom instruction.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in fundamentals of automotive maintenance and 2 in automotive parts management (3/87).

AR-1703-0036

REFRESHER COURSE, HEAVY WHEEL VEHICLE
MECHANIC INDIVIDUAL READY RESERVE

Course Number: 610-F4 (IRR).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 2 weeks (90 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to use tools and automotive test equipment to troubleshoot malfunctions in various automotive systems.

Instruction: A refresher course consisting of lectures, demonstrations, and practical exercises in diagnostic testing and troubleshooting of automotive engines, fuel systems, engine electrical systems, brake systems, cooling systems, and related systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in automotive electrical systems and 1 in automotive diagnostic and testing (3/87).

Related Occupations: 63S.

AR-1703-0037

HEAVY WHEEL VEHICLE MECHANIC

Course Number: Version 1: 610-63S10.
Version 2: 610-63S10.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD; Training Center, Ft. Jackson, SC.

Length: Version 1: 11-12 weeks (427 hours). Version 2: 13 weeks (476 hours).

Exhibit Dates: Version 1: 3/90-Present.
Version 2: 1/90-2/90.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to perform repairs on heavy automotive wheel vehicles and materials handling equipment including gas/diesel engine troubleshooting and overhaul, electrical systems, basic brake systems, basic steering and suspension system, power train maintenance, and hydraulic system maintenance. Version 2: Upon completion of the course, the student will be able to perform repairs on heavy automotive wheel vehicles and materials handling equipment including gas/diesel engine troubleshooting and overhaul, electrical systems, basic brake systems, basic steering and suspension system, power train maintenance, and hydraulic system maintenance.

Instruction: Version 1: Lectures and practical exercises in troubleshooting and repairing of engine systems, fuel, air, and exhaust systems, automotive electrical systems, brake systems, steering and suspension systems, and hydraulic systems. Version 2: Lectures and practical exercises in troubleshooting and repairing of engine

systems, fuel, air, and exhaust systems, automotive electrical systems, brake systems, steering and suspension systems, and hydraulic systems.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in automotive engine service, 2 in basic automotive electrical, 1 in basic automotive brakes, 1 in basic steering and suspension systems, and 2 in basic hydraulic systems (12/90). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in heavy duty gasoline engine systems, 1 in automotive electrical, 1 in heavy duty brakes hydraulic/air, and 1 in heavy duty steering and suspension services (12/90).

Related Occupations: 63S.

AR-1703-0038

TRACK VEHICLE REPAIRER INDIVIDUAL READY
RESERVE (63H30)

Course Number: 611-F6 (IRR).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 2 weeks (77 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to use tools and automotive test equipment to troubleshoot malfunctions in various automotive systems.

Instruction: A refresher course consisting of lectures, demonstrations, and practical exercises in diagnostic testing and troubleshooting of automotive engines, fuel systems, engine electrical systems, cooling systems and related systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in automotive electrical systems (3/87).

Related Occupations: 63H.

AR-1703-0040

M1 ABRAMS TANK SYSTEM MECHANIC BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 611-63E30.

Location: Armor Center and School, Ft. Knox, KY.

Length: For the 63E Track, 12-13 weeks (406 hours); For the 45E Track, 11 weeks (400 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student is able to supervise and perform unit maintenance on the hull and tank turret of special track vehicles and the family of wheel vehicles.

Instruction: Includes maintenance management, recovery operation, diagnostics, supervision training management, inspection, testing, and repairing of systems and subsystems on track vehicles and wheel vehicles.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in basic automotive electricity laboratory and 2 in maintenance management for either the 63E or the 45E Tracks (3/87).

Related Occupations: 45E; 63E.

AR-1703-0042

M60A1/A3 TANK SYSTEMS MECHANIC

Course Number: 611-63N10.

Location: Armor Center and School, Ft. Knox, KY.

Length: 8-9 weeks (304-332 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student is able to perform organizational maintenance on chassis system and components of track vehicles and wheel vehicles and to conduct recovery operations using light and medium recovery vehicles.

Instruction: Instruction includes servicing, lubricating, removing and replacing, adjusting, testing, and troubleshooting systems, components, and assemblies of engine, fuel, exhaust, cooling, electrical engine power trains, track, suspensions, steering controls, and hull of specialized military track and wheel vehicles.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic automotive electricity laboratory (3/87).

Related Occupations: 63N.

AR-1703-0043

TRACK VEHICLE MECHANIC INITIAL ENTRY
TRAINING

Course Number: 611-63Y10.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD; Armor Center, Ft. Knox, KY.

Length: 11-13 weeks (468 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will understand basic automotive vehicle power train and chassis theory, and be able to perform maintenance and routine service on the common vehicle systems.

Instruction: Lectures and demonstrations on automotive power train and chassis components. Laboratory experience and projects on automotive vehicles using appropriate tools, service manuals and test equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in automotive fundamentals, 2 in automotive electrical systems, and 2 in basic automotive laboratory (12/90).

Related Occupations: 63Y.

AR-1703-0044

M60A3 TANK SYSTEM MECHANIC INDIVIDUAL
READY RESERVE REFRESHER

Course Number: 611-F11 (IRR); 63N20.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD; Armor Center and School, Ft. Knox, KY.

Length: 2 weeks (116-120 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to utilize the appropriate tool and diagnose equipment faults for the MOS in which the student was trained.

Instruction: Lectures and practical exercises in automotive systems, vehicle recovery operations and tank turret systems.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (3/87).

Related Occupations: 63N.

AR-1703-0045

M2/3 BRADLEY FIGHTING VEHICLE SYSTEM
TURRET MECHANIC
(Bradley Fighting Vehicle System Turret
Mechanic)

Course Number: 643-45T10.

Location: Armor Center and School, Ft. Knox, KY.

Length: 9-11 weeks (322-393 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to troubleshoot, remove, repair, replace and adjust components and assemblies on the Bradley fighting vehicle turrets and also be able to perform preventive checks and services as required using manuals and maintenance forms.

Instruction: Instruction includes lectures, and performance exercises on electrical and hydraulic systems and maintenance of the Bradley fighting vehicle system turret. Emphasis is placed on troubleshooting, repair, replacement, and adjustment of turret components and assemblies.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (7/91).

AR-1703-0046

ADVANCED MACHINIST
(Machinist)

Course Number: 702-42750.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 4-5 weeks (188-192 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to perform measuring and gauging operations, advanced milling and grinding and layout and heat treating of tool materials.

Instruction: Lectures and practical exercises in precision measuring and gauging, milling, tool grinding, cutting threads, reading shop drawings, fabrication of jigs and fixtures, tool and die making and heat treating of materials.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in precision measuring and gauging, 1 in advanced machine shop, 2 in tool and die making (12/90).

AR-1703-0047

ITV/IFV/CFV SYSTEMS MECHANIC RECOVERY
SPECIALIST

Course Number: 611-ASIH8 (63T).

Location: Armor Center and School, Ft. Knox, KY.

Length: 4-5 weeks (163 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate light and medium recovery vehicles and associated equipment to recover track vehicles.

Instruction: Instruction includes operation, servicing, and the use of light and medium recovery vehicles and equipment, procedures for recovery and transportation of disabled vehicles.

Credit Recommendation: In the vocational certificate category, 1 semester hour in rigging and winch operation, 1 in vehicle operation and 1 in servicing and maintenance (3/87).

Related Occupations: 63T.

AR-1703-0049

METALWORKER INDIVIDUAL READY RESERVE
(44B20)

Course Number: 704-F1-IRR.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 2 weeks (90 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to use welding and auto body repair tools and equipment for the MOS in which the student was trained.

Instruction: A refresher course in the operation and use of oxyacetylene, arc and inert gas welding equipment and in auto body repair techniques.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (3/87).

Related Occupations: 44B.

AR-1703-0050

M1 ABRAMS TANK TURRET MECHANIC

Course Number: 643-45E10.

Location: Armor Center and School, Ft. Knox, KY.

Length: 9 weeks (316-350 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform maintenance on a tank turret including the fire control and hydraulic systems.

Instruction: Lectures, demonstrations and practical exercises in basic electricity and electrical systems, principles and practices of hydraulics, special tools, shop safety, the fire control system and the armament system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in fundamentals of hydraulic systems and 1 in electrical systems shop (3/87).

Related Occupations: 45E.

AR-1703-0051

M60A1/A3 TANK RECOVERY SPECIALIST

Course Number: 611-ASIH8 (63N).

Location: Armor Center and School, Ft. Knox, KY.

Length: 4-5 weeks (140 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to use and operate wheel and tracked recovery vehicles.

Instruction: Lectures, demonstrations, and practical exercises in the operation, preventive maintenance, and utilization of wheel-type and track-type recovery vehicles. Other topics include driving instruction, boom operation and oxyacetylene cutting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in heavy equipment operation (3/87).

Related Occupations: 63N.

AR-1703-0052

LIGHT WHEEL VEHICLE MECHANIC (RECOVERY
SPECIALIST)

Course Number: 610-63B10 (ASI-H8);
610-63B10 (ASI-H8) (ST); 610-63B10
(ASI-H8).

Location: Training Center, Ft. Jackson, SC;
Training Center, Ft. Dix, NJ; Training Center,
Ft. Leonard Wood, MO.

Length: 2 weeks (79 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate a wrecker truck for the recovery of light vehicles.

Instruction: Lectures, demonstration, and practical experience in the operation of a wheel type wrecker truck including the operation of recovery boom, rigging, and safety procedures.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (1/90).

Related Occupations: 63B.

AR-1703-0053

TRACK VEHICLE REPAIRER INDIVIDUAL READY
RESERVE REFRESHER

Course Number: 611-F4 (IRR).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 2 weeks (79 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to disassemble, identify, inspect, reassemble, and test charging systems components to Diesel fuel system components. Will also be able to troubleshoot the electrical and fuel system on the Diesel engine, turbine engine, 6U53T Detroit Diesel engine, and Allison X200-4 automatic transmission. After troubleshooting the student will also be able to make needed repairs to failed systems.

Instruction: Includes lecture and hand-on training, stressing diagnosing and troubleshooting malfunctions on Detroit Diesel 6U53T engines, turbine engines, Allison X200-4 automatic transmissions, electrical systems, and fuel systems. Repair of charging and fuel system components and repair of failed systems after diagnosis are also covered.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in heavy equipment mechanics (3/87).

Related Occupations: 63H.

AR-1703-0055

WHEEL VEHICLE REPAIRER INDIVIDUAL READY
RESERVE (IRR) REFRESHER (63W20)

Course Number: 610-F3 (IRR).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 2 weeks (76 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to use tools and automotive test equipment to troubleshoot malfunctions in various automotive systems.

Instruction: A refresher course consisting of lectures, demonstrations, and practical exercises in troubleshooting of automotive engines, fuel systems, electrical systems, brake systems, steering and suspension systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in automotive steering and suspension systems (3/87).

Related Occupations: 63W.

AR-1703-0057

JUNIOR OFFICER MAINTENANCE

Course Number: 8C-F21; 8C-77D.

Location: Armor Center, Ft. Knox, KY.

Length: 6 weeks (167-214 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise the maintenance of wheeled and tracked vehicles and associated armament equipment.

Instruction: Instruction includes lectures and practical exercises in maintenance and management of wheeled and tracked vehicles and associated armament equipment, including records, maintenance forms, administrative control of licensing and dispatch, use and control of tools and test equipment repair parts supplies and managing and performing scheduled maintenance services, and an emphasis is also placed on vehicle recovery and power plant maintenance and troubleshooting.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in equipment maintenance management (10/89).

AR-1703-0058

TRACK VEHICLE REPAIRER INDIVIDUAL READY
RESERVE REFRESHER

Course Number: 63H30 (IRR).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 2 weeks (77 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to disassemble, identify, inspect, reassemble, and test charging system components and diesel fuel system components, to troubleshoot the electrical system, fuel system on Cummins diesel engine, turbine engine, and power generation systems; after diagnosis, the student will be able to make needed repairs to the failed system.

Instruction: Includes lecture and hands-on training, stressing diagnosing and troubleshooting malfunctions on Cummins diesel engines, turbine engines, power generation units, electrical and fuel systems; repair of charging and fuel system components; repair of failed system after diagnosis; new equipment updates.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in heavy equipment mechanic (3/87).

Related Occupations: 63H.

AR-1703-0059

MOTOR TRANSPORT OPERATOR

Course Number: 811-88M10; 811-64C10.

Location: Training Center, Ft. Leonard Wood, MO; Training Center, Ft. Dix, NJ.

Length: 8 weeks (302 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate light, medium, and heavy-weight trucks and tractors and semitrailers under all road conditions; and perform operator maintenance check on the vehicles.

Instruction: Lectures and practical exercises in the operation of quarter ton, two-and-a-half ton, and five ton cargo trucks and the five-ton and 14-ton tractor and semitrailer.

Credit Recommendation: In the vocational certificate category, 2 semester hours in truck driving (6/91).

Related Occupations: 88M.

AR-1703-0061

FUEL AND ELECTRICAL SYSTEMS REPAIRER

Course Number: 610-3524

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 4-5 weeks (158 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the Marine student will be able to perform basic gasoline and diesel engine electrical and fuel system maintenance and repair, use diagnostic equipment, and have proficiency in troubleshooting these systems.

Instruction: Instruction for Marines includes applied electricity, ignition, starting, and charging systems; gasoline and diesel fuel systems, carburetor repair, two barrel overhaul, injector pumps and injector nozzle, and power and injector pump.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in diesel engine laboratory, 2 in automotive electrical systems laboratory (12/90).

AR-1703-0062

ENGINEER TRACKED VEHICLE CREWMAN BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 030-18-12F30/030-12F30; 030-12F30.

Location: Engineer School, Ft. Leonard Wood, MO; Training Centers, Europe.

Length: 7-8 weeks (265-295 hours).

Exhibit Dates: 10/91-Present.

Learning Outcomes: Upon completion of the course the student will be able to operate a tracked vehicle and prepare the vehicle for firing.

Instruction: Lectures and practical exercises on the above topics.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (1/93).

AR-1704-0003

AIR TRAFFIC CONTROL RADAR CONTROLLER
(Air Traffic Control Ground Control
Approach Specialist)

Course Number: 222-93J10; 222-93J20.

Location: Aviation Center, Ft. Rucker, AL.

Length: 13-17 weeks (482-553 hours).

Exhibit Dates: 1/90-1/90.

Objectives: To train enlisted personnel in air traffic control UFR/IFR operations.

Instruction: Practical exercises and lectures in aviation weather, navigational aids, Federal Aviation Administration regulations, and air traffic control procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control (11/86).

Related Occupations: 93J.

AR-1704-0008

AVIATION LIFE SUPPORT EQUIPMENT TECHNICIAN

Course Number: 2C-F51/4D-ASIH2/600-ASIQ2; 2C-F51/4D-AS1F/600-ASIQ2.

Location: Transportation School, Ft. Eustis, VA.

Length: 5-6 weeks (196-204 hours).

Exhibit Dates: 1/90-9/91.

Objectives: After 9/91 see AR-1408-0212. To train personnel to perform job-related tasks within the scope of aviation life support equip-

ment, life support survival equipment, and general maintenance duties and repairs.

Instruction: Lectures and practical exercises in the testing and maintenance of life support systems, such as: life preservers, life rafts, armor vests, helmets, oxygen masks, and first aid kits, publications, forms, and record control procedures; and shop, supply, and safety procedures.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/91).

AR-1704-0012

AIRCRAFT POWERTRAIN REPAIRER
(Aircraft Powertrain Repair)

Course Number: 602-68D10.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA; Transportation School, Ft. Eustis, VA.

Length: 13-14 weeks (463-493 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel to maintain and repair helicopter powertrains and allied equipment.

Instruction: Practical experience in helicopter powertrain maintenance and repair including aircraft structural hardware; equipment records systems; bearings, gears, and component preservation; and penetrant inspections, magnetic particle inspections, and radiographic and ultrasonic inspections. Also includes nondestructive testing.

Credit Recommendation: In the vocational certificate category, 12 semester hours in helicopter powertrain maintenance and repair (10/89); in the lower-division baccalaureate/associate degree category, 6 semester hours in theory, operation, maintenance, and repair procedures on helicopter powertrain systems (10/89).

Related Occupations: 68D.

AR-1704-0018

UH-60 HELICOPTER REPAIRER TRANSITION

Course Number: 600-67T20-T.

Location: Transportation School, Ft. Eustis, VA.

Length: 8-9 weeks (252 hours).

Exhibit Dates: 1/90-12/93.

Objectives: To train enlisted personnel to maintain and repair the UH-60 series helicopter.

Instruction: Lectures and practical exercises in aircraft maintenance and repair procedures, helicopter equipment, auxiliary equipment, powerplant and powertrain maintenance repair and inspections, including rotor and blade systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter maintenance (3/83).

Related Occupations: 67T.

AR-1704-0033

UTILITY HELICOPTER REPAIRER (UH-1)

Course Number: 600-67N10; 600-67N10 (ST); 600-67N20.

Location: Aviation School, Ft. Rucker, AL; Transportation School, Ft. Eustis, VA.

Length: 10-11 weeks (388-396 hours).

Exhibit Dates: 1/90-3/92.

Objectives: After 3/92 see AR-1704-0205. To provide personnel with the training necessary to perform organizational, direct, and gen-

eral support maintenance tasks on the UH-1 utility helicopter.

Instruction: Lectures and practical exercises in helicopter systems fundamentals, including airframe, fuel and lubrication, hydraulic, rotor, and electrical systems maintenance and repair procedures; inspection and troubleshooting of helicopter systems; flight control; and ground-handling equipment maintenance.

Credit Recommendation: In the vocational certificate category, 7 semester hours in helicopter maintenance (4/92); in the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter maintenance (4/92).

Related Occupations: 002; 09B; 67N; 67W; 67Z.

AR-1704-0038

OBSERVATION AIRPLANE REPAIRER
(OV-1 Airplane Repair)

Course Number: 600-67H10.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 9-12 weeks (341-498 hours).

Exhibit Dates: 1/90-12/93.

Objectives: To train enlisted personnel in entry-level tasks, the maintenance of multi-engine, turbine-powered aircraft.

Instruction: Lectures and practical exercises in the fundamentals of multiengine, turbine-powered aircraft, including operation, maintenance, troubleshooting and repair of hydraulic, electrical, instrument, fuel, power plant, propeller, landing gear, and flight control systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in aviation maintenance (7/85).

Related Occupations: 67F; 67H; 67Z.

AR-1704-0044

SMOKE OPERATION SPECIALIST

Course Number: 494-54C10.

Location: Chemical School, Ft. McClellan, AL.

Length: 6-7 weeks (265-290 hours).

Exhibit Dates: 1/90-3/92.

Objectives: To provide enlisted personnel with training in smoke operations and fuel handling.

Instruction: Lecture demonstration and practical experience in chemical operations, smoke generator operations, fuel handling operations and tactical operations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (3/82).

AR-1704-0046

SMOKE OPERATIONS SPECIALIST (TRANSITION)

Course Number: 494-54C20-T.

Location: Chemical School, Ft. McClellan, AL.

Length: 6 weeks (193 hours).

Exhibit Dates: 1/90-1/92.

Objectives: To train reclassified enlisted personnel for jobs as smoke and fuel supply team/squad leaders.

Instruction: Conferences and practical exercises on decontamination, operating and maintaining smoke generators, wind measuring sets,

tank and pump units, and hand driven dispensing pumps.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (3/82).

Related Occupations: 54C.

AR-1704-0062

AIRCRAFT ARMAMENT MAINTENANCE TECHNICIAN

Course Number: 4D-SQIE.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 12-13 weeks (444 hours).

Exhibit Dates: 1/90-9/90.

Objectives: To teach officers to supervise aircraft armament maintenance personnel in weapons systems and fire control systems repair.

Instruction: Lectures and practical exercises in helicopter armament systems and subsystems, basic electricity and electronics, missile systems and subsystems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics theory (7/85).

Related Occupations: 100B; 100E.

AR-1704-0066

OBSERVATION/SCOUT HELICOPTER REPAIRER
(OH-58 Helicopter Repairer)

Course Number: 600-67V10 (OH-58); 600-67V10 (ST) (OH-58); 600-67V10.

Location: Aviation School, Ft. Rucker, AL.

Length: 8-10 weeks (214-356 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel in organizational, direct, and general support maintenance of the OH-58 helicopter.

Instruction: Lectures and practical exercises in maintenance of OH-58 helicopter, including powerplant, rotor gear train (main and tail rotor), hydraulics, inspection procedures, electrical system inspection and troubleshooting, fundamentals of alternating current and direct current.

Credit Recommendation: In the vocational certificate category, 6 semester hours in helicopter repair (4/92); in the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter repair (4/92).

Related Occupations: 00Z; 67V; 67W; 67Z.

AR-1704-0075

AIRCRAFT ELECTRICIAN

Course Number: 602-68F10.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA; Transportation School, Ft. Eustis, VA.

Length: 21-24 weeks (738-768 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel to perform direct and general support maintenance of aircraft electrical systems and components.

Instruction: Lectures and practical exercises in basic electrical and electronic theory, soldering techniques, AC and DC circuits, semiconductors, wiring diagrams, and test equipment. Reinforcement of these skills and knowledge by performing the operation, testing, troubleshooting, and repair of aircraft and helicopter electrical systems is included in this course.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in fundamentals of electricity, 3 in basic electronics, 6 in electrical/electronics laboratory, 3 in aircraft electrical systems, and 3 in aircraft instrument repair (4/92).

Related Occupations: 68F.

AR-1704-0087

EJECTION SEAT REPAIRER
(Martin-Baker J-5 Ejection Seat Specialist)

Course Number: 600-ASIB7 (67H); 600-ASIB7; 600-F6.

Location: Transportation School, Ft. Eustis, VA; Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 3-4 weeks (108-128 hours).

Exhibit Dates: 1/90-12/93.

Objectives: To train personnel with previous technical experience to perform as J-5 ejection seat specialists.

Instruction: Lectures and practical exercises on the inspection, repair, and organizational and support maintenance of Martin-Baker J-5 ejection seats, aircraft survival seat kits, and 9E2A ejection seat simulators, including introduction to Martin-Baker ejection seats; ejection seat removal, disassembly, inspection, maintenance, and reassembly; personnel parachutes; OV-1 aircraft survival seat kits; SEEK-2 life vest; physiological effects; fitting and adjusting personal equipment; introduction to the 9E2A ejection seat simulators; and function of related systems.

Credit Recommendation: Credit is not recommended because of the technical nature of the course (6/91).

Related Occupations: 67K.

AR-1704-0093

OBSERVATION/SCOUT HELICOPTER REPAIRER (OH-6)

Course Number: 600-67V10 (OH-6).

Location: Transportation School, Ft. Eustis, VA.

Length: 7 weeks (214 hours).

Exhibit Dates: 1/90-1/92.

Objectives: To train personnel to provide direct and general support maintenance for the scout helicopter.

Instruction: Lectures and practical exercises in general aircraft maintenance and repair procedures on helicopter equipment, auxiliary equipment, and power plant.

Credit Recommendation: In the vocational certificate category, 6 semester hours in helicopter repair (3/83); in the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter repair (3/83).

Related Occupations: 67V.

AR-1704-0095

AH-1 ATTACK HELICOPTER REPAIRER
(Attack Helicopter Repairer)
(Attack Helicopter Repairman)

Course Number: 600-67Y10.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 11-13 weeks (418-455 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel in the skills pertaining to entry-level mechanical tasks related to the repair of helicopters.

Instruction: Lectures, programmed instruction, and practical exercises in general aircraft maintenance procedures and helicopter equipment, auxiliary equipment, and power plant maintenance and inspection.

Credit Recommendation: In the lower division baccalaureate/associate degree category, 3 semester hours in helicopter maintenance, 2 in helicopter systems inspection and repair (4/92).

Related Occupations: 67Y.

AR-1704-0100

AIRCRAFT STRUCTURE REPAIR

Course Number: 603-68G10

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA; Transportation School, Ft. Eustis, VA.

Length: 15 weeks (547 hours).

Exhibit Dates: 1/90-9/92

Objectives: After 9/92 see AR-1704-0207. To train enlisted personnel in entry level tasks involving the support maintenance of aircraft structural members, sheetmetal surfaces, fiberglass, and rotor blade repair.

Instruction: Course involves practical exercises including aircraft riveting; repair of aircraft skin, structural member, and rotor blade; maintenance and equipment record systems; forming of aircraft parts; and shop and flight line safety.

Credit Recommendation: In the lower division baccalaureate/associate degree category, 3 semester hours in airframe sheet metal shop, and 3 in airframe structural repairs (1/88).

Related Occupations: 68G.

AR-1704-0106

AIRCRAFT POWERPLANT REPAIRER SUPERVISOR
BASIC NONCOMMISSIONED OFFICER (NCO)
(Aircraft Powerplant Repairer Basic Non-commissioned Officer (NCO))
(Aircraft Powerplant Repairer Basic Technical)

Course Number: Version 1: 601-68B30.
Version 2: 601-68B30.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: Version 1: 10 weeks (368 hours).
Version 2: 4-9 weeks (129-221 hours).

Exhibit Dates: Version 1: 10/91-Present.
Version 2: 1/90-9/91.

Objectives: Version 1: To train selected enlisted personnel in aviation maintenance management principles and procedures. Version 2: To train selected enlisted personnel in aviation maintenance management principles and procedures.

Instruction: Version 1: The course consists of lectures and practical experiences in applying the policies and procedures associated with approved aviation maintenance standards. Version 2: The course consists of lectures and practical experiences in applying the policies and procedures associated with approved aviation maintenance standards.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance management, and 3 in principles of supervision. See AR-1406-0090 for common core credit (3/88). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance management, 3 in principles of supervision (3/88).

Related Occupations: 68B

AR-1704-0107

AIRCRAFT POWERTRAIN REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)
(Aircraft Powertrain Repairer Basic Technical)

Course Number: 602-68D30

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 3-5 weeks (117-175 hours).

Exhibit Dates: 1/90-3/90

Objectives: To train selected enlisted personnel in aviation maintenance management principles and procedures.

Instruction: Lectures and practical experiences in the supervision of powertrain systems maintenance and repair of helicopters.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in supervision of aircraft powertrain system maintenance. See AR-1406-0090 for common core credit (7/85).

Related Occupations: 68D.

AR-1704-0108

AIRCRAFT ELECTRICIAN REPAIRER SUPERVISOR
BASIC NONCOMMISSIONED OFFICER (NCO)
(Aircraft Electrician Repairer Basic Non-commissioned Officer (NCO))
(Aircraft Electrician Repairer Basic Technical)

Course Number: 602-68F30.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 9-12 weeks (354-505 hours).

Exhibit Dates: 1/90-3/90.

Objectives: To train selected enlisted personnel in aviation maintenance management principles and procedures.

Instruction: Lectures and practical exercises cover the materials required to conduct thorough inspections on aircraft including maintenance of electrical subsystems and components, and in applying the policies and procedures associated with approved aviation maintenance standards.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronics, 2 in aviation maintenance management. See AR-1406-0090 for common core credit (3/88).

Related Occupations: 68F.

AR-1704-0109

AIRCRAFT STRUCTURAL REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)
(Aircraft Structural Repairer Basic Technical)

Course Number: 603-68G30.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 3-7 weeks (105-200 hours).

Exhibit Dates: 1/90-3/90.

Objectives: To train selected enlisted personnel in aviation maintenance management principles and procedures.

Instruction: The course consists of lectures and practical experiences in applying the policies and procedures associated with approved aviation maintenance standards.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance

management. See AR-1406-0090 for common core credit (7/85).

Related Occupations: 68G.

AR-1704-0114

AIRCRAFT PNEUDRAULIC REPAIRER SUPERVISOR
BASIC NONCOMMISSIONED OFFICER (NCO)
(Aircraft Pneudraulics Repairer Basic Non-commissioned Officer (NCO))
(Aircraft Pneudraulics Repairer Basic Technical)

Course Number: 603-68H30.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 5-6 weeks (76-204 hours).

Exhibit Dates: 1/90-3/90.

Objectives: management principles and procedures.

Instruction: The course consists of lectures and practical experiences in applying the policies and procedures associated with approved aviation maintenance standards to include aircraft pneudraulic systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance management. See AR-1406-0090 for common core credit (5/86).

Related Occupations: 68H.

AR-1704-0115

UTILITY/CARGO AIRPLANE REPAIRER BASIC
TECHNICAL

Course Number: 600-67G30.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 5-6 weeks (188 hours).

Exhibit Dates: 1/90-12/93.

Objectives: To train selected enlisted personnel in aviation maintenance management principles and procedures.

Instruction: The course consists of lectures and practical experiences in applying the policies and procedures associated with approved aviation maintenance standards.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft maintenance management, 3 in principles of supervision (5/86).

Related Occupations: 67G.

AR-1704-0118

HEAVY LIFT HELICOPTER REPAIRER BASIC
TECHNICAL

Course Number: 600-67X30.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 3 weeks (105 hours).

Exhibit Dates: 1/90-12/93.

Objectives: To train selected enlisted personnel in aviation maintenance management principles and procedures.

Instruction: The course consists of lectures and practical experiences in applying the policies and procedures associated with approved aviation maintenance standards.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance management (7/85).

Related Occupations: 67X.

AR-1704-0119

AIRCRAFT FIRE CONTROL REPAIRER BASIC
TECHNICAL

Course Number: 600-68J30.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 15 weeks (538 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel to perform and supervise the maintenance and repair of aircraft fire control systems and associated subsystems.

Instruction: Lecture and practical experience in supervising and repairing of aircraft fire control systems and subsystems to include weapons systems and armament electrical/electronic training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical/electronics, 2 in electrical laboratory, 3 in supervision and inspection (7/85).

Related Occupations: 68J.

AR-1704-0123

UH-1 UTILITY HELICOPTER TECHNICAL INSPECTOR
(Utility Helicopter Technical Inspector)

Course Number: 600-66N20.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 12-13 weeks (446-459 hours).

Exhibit Dates: 1/90-3/90.

Objectives: To train enlisted personnel to perform technical inspections on maintenance tasks performed by helicopter repairers and allied trades personnel.

Instruction: Lecture and practical exercises in inspections on helicopter systems, subsystems and components before, during, and after maintenance activities, to insure compliance with proper helicopter configuration control, Army oil analysis, test equipment calibration, directives, technical manuals, work orders, and SOP, and other policies and procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter inspections, and 3 in powerplant inspections (3/88).

Related Occupations: 66N.

AR-1704-0126

OBSERVATION/SCOUT HELICOPTER TECHNICAL
INSPECTOR

Course Number: 600-66V20.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 10-14 weeks (372-488 hours).

Exhibit Dates: 1/90-12/93.

Objectives: To train enlisted personnel to perform technical inspections on maintenance tasks performed by helicopter repairers and allied trades personnel.

Instruction: Lecture and practical exercises in inspections on helicopter systems, subsystems and components before, during, and after maintenance activities, to insure compliance with proper helicopter configuration control, Army oil analysis, test equipment calibration, directives, technical manuals, work orders, unit SOP, and other policies and procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree cate-

gory, 3 semester hours in helicopter inspections, and 3 semester hours in powerplant inspections (3/88).

Related Occupations: 66V.

AR-1704-0127

ATTACK HELICOPTER TECHNICAL INSPECTOR

Course Number: 600-66Y20.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 12-13 weeks (439-461 hours).

Exhibit Dates: 1/90-12/93.

Objectives: To train enlisted personnel to perform technical inspections on maintenance tasks performed by helicopter repairers and allied trades personnel.

Instruction: Lecture and practical exercises in inspections on helicopter systems, subsystems and components before, during, and after maintenance activities, to insure compliance with proper helicopter configuration control, Army oil analysis, test equipment calibration, directives, technical manuals, work orders, unit SOP, and other policies and procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter inspections and 3 in powerplant inspections (3/88).

Related Occupations: 66Y.

AR-1704-0130

CH-54 HELICOPTER REPAIRER

Course Number: 600-67X10.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 13-14 weeks (481 hours).

Exhibit Dates: 1/90-12/93.

Objectives: To train personnel in the skills and knowledge pertaining to selected entry-level mechanic tasks related to the repair of helicopters.

Instruction: Lectures, programmed instruction, and practical exercises in general aircraft maintenance procedures and helicopter equipment, power plant, and power train maintenance, repair, and inspections.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter maintenance, 2 in helicopter system inspections and repair (7/85).

AR-1704-0133

LIGHTER AIR-CUSHION VEHICLE OPERATOR

Course Number: 062-ASIE6 (61B).

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 9 weeks (324 hours).

Exhibit Dates: 1/90-9/93.

Objectives: After 9/93 see AR-1704-0210. To train selected personnel in the operation of lighter air-cushion vehicles.

Instruction: Lectures and practical exercises in craft operation, use of emergency equipment and procedures, logistics procedures and operational safety.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (5/86).

AR-1704-0141

ARMAMENT/FIRE CONTROL MAINTENANCE
SUPERVISOR NONCOMMISSIONED OFFICER
(NCO) ADVANCED
(Mechanical Maintenance Noncommissioned Officer (NCO) Advanced, MOS 45Z)

Course Number: 640-45Z40; 6-63-C42 (45Z).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 10-12 weeks (376-547 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to apply the skills and technical knowledge and serve as a supervisor in the selected military occupational specialty (MOS) for which trained.

Instruction: Lectures, demonstrations, and practical exercises in leadership, communication skills, fundamentals of instruction, logistics management, and refresher training in the appropriate military occupational specialty (MOS). Emphasis in on leadership and on verbal and written communication.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity. See AR-1404-0035 for common core credit (1/88).

Related Occupations: 45Z.

AR-1704-0142

M1 ABRAMS TANK SYSTEMS MECHANIC

Course Number: 611-63E10.

Location: Armor Center, Ft. Knox, KY.

Length: (328-329), 9-10 weeks.

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to test, troubleshoot, replace, repair, and adjust selected components and systems on various vehicles.

Instruction: Lectures, demonstrations, and practical exercises including the use of special testing equipment to troubleshoot and service electrical, suspension, drive lines, and braking systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in automotive electricity and 2 in heavy equipment repair (7/87).

Related Occupations: 63E.

AR-1704-0144

LIGHTER AIR-CUSHION VEHICLE MAINTENANCE
TECHNICIAN

Course Number: 601-ASIE6 (68B).

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA; Transportation School, Ft. Story, VA.

Length: 3-4 weeks (123 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to maintain the lighter air-cushion vehicle in safe and efficient operating condition. The student will be able to operate and maintain the many aircraft-related components of the vehicle including fans and propellers, gas turbine engine, auxiliary and ground power units and associated controls. The student will also be able to operate and maintain air conditioning and heating systems and conduct pre- and post-operative checks. The student will be able to repair and replace the skirts on the vehicle. The student

will be able to observe and enforce flight line safety and hearing conservation.

Instruction: Lectures, practical exercises, and examinations on power plants and their operation and controls, air conditioning and heating, and skirt repair and replacement. The dangers of noise pollution and flight line safety are also covered.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in gas turbine theory and operation (3/88).

Related Occupations: 68B

AR-1704-0146

AIRCRAFT ARMAMENT TECHNICAL INSPECTOR

Course Number: 600-66J30.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 10-11 weeks (395 hours).

Exhibit Dates: 1/90-3/90.

Learning Outcomes: Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories and will be familiar with data communications, hardware and software, and use of ground support equipment. Student will be able to establish policies and procedures for hangar safety. The student will be able to supervise the inspection and repair of boresight assembly, ground support systems, turret and fire control systems, and be able to read electrical wiring diagrams and compute and measure electrical values of DC and AC circuits using oscilloscopes and digital multimeters.

Instruction: Lectures and practical exercise in the above subjects.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance management and 2 in principles of supervision (3/88).

Related Occupations: 66J.

AR-1704-0147

AIRCRAFT/ARMAMENT/MISSILE SYSTEMS

SUPERVISOR BASIC NONCOMMISSIONED OFFICER (NCO)

(Aircraft Fire Control Systems Supervisor Basic Noncommissioned Officer (NCO) Basic)

Course Number: 646-68J30.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 16-17 weeks (597 hours).

Exhibit Dates: 1/90-3/90.

Learning Outcomes: Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories; be familiar with data communication, hardware and software, use of ground support equipment; and will establish policies and procedures for shop and hangar safety. The student will be able to supervise the inspection and repair of boresight assembly, ground support systems, turret and fire control systems; and be able to read electrical wiring diagrams and compute and measure electrical values of DC and AC circuits using oscilloscopes and digital multimeters. The student will be able to supervise inspection and repair of transistor/amplifier, function generator/interface, relay, and integrated circuits.

Instruction: Lectures, demonstrations, and practical exercises on the above subjects.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance management and 3 in principles of supervision. See AR-1406-0090 for common core credit (3/88).

Related Occupations: 68J

AR-1704-0148

CH-54 HEAVY LIFT HELICOPTER REPAIRER
RESERVE COMPONENT

Course Number: 600-67X10-RC.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 10-11 weeks (403 hours).

Exhibit Dates: 1/90-12/93.

Learning Outcomes: Upon completion of the course, the student will be able to perform maintenance, excluding repair of system components, on the CH-54 heavy lift helicopter under direct supervision. The student will be able to identify, remove, and replace subsystem and system components in electrical, hydraulic, auxiliary power plant, utility, power plant, and rotor and powertrain systems. The student will identify, remove, and replace subsystem components and assist in operational checks of the flight control, automated flight control, and fuel systems. The student will be able to identify and control types of corrosion and identify, remove and replace fuselage subsystem and system components and assist in maintenance and operational checks.

Instruction: Lectures, demonstrations, examinations, and practical work. Subjects include aircraft familiarization and operations, maintenance publications and tools, foreign object damage and prevention, shop and flight line safety, corrosion control, and prevention and aircraft systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in helicopter maintenance (3/88).

Related Occupations: 67X.

AR-1704-0149

OV-1 OBSERVATION AIRPLANE REPAIRER

SUPERVISOR BASIC NONCOMMISSIONED OFFICER (NCO)

(OV-1 Observation Airplane Repairer Basic Noncommissioned Officer (NCO))

Course Number: Version 1: 600-67H30. Version 2: 600-67H30. Version 3: 600-67H30.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: Version 1: 16-17 weeks (621 hours). Version 2: 15 weeks (451 hours). Version 3: 9-10 weeks (315 hours).

Exhibit Dates: Version 1: 10/91-Present. Version 2: 4/90-9/91. Version 3: 1/90-3/90.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hangar safety and will be able to supervise maintenance on fuel systems, pneumatic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control and flight control sys-

tems. Version 2: Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hangar safety and will be able to supervise maintenance on fuel systems, pneumatic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control and flight control systems. Course no longer contains common core. Version 3: Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hangar safety and will be able to supervise maintenance on fuel systems, pneumatic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control and flight control systems.

Instruction: Version 1: Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management. Version 2: Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management. Version 3: Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management and 3 in principles of supervision. See AR-1406-0090 for common core credit (6/91). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management and 3 in principles of supervision (6/91). Version 3: In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance management and 3 in principles of supervision. See AR-1406-0090 for common core credit (3/88).

Related Occupations: 67H.

AR-1704-0150

UH-60 HELICOPTER REPAIRER SUPERVISOR BASIC
NONCOMMISSIONED OFFICER (NCO)

(UH-60 Tactical Transport Helicopter Basic Noncommissioned Officer (NCO))

Course Number: Version 1: 600-67T30. Version 2: 600-67T30. Version 3: 600-67T30.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: Version 1: 14 weeks (502 hours). Version 2: 12-13 weeks (386 hours). Version 3: 8-9 weeks (277 hours).

Exhibit Dates: Version 1: 10/91-Present. Version 2: 4/90-9/91. Version 3: 1/90-3/90.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hangar safety and will be able to supervise

maintenance on fuel systems, pneudraulic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control and flight control systems. *Version 2:* Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hangar safety and will be able to supervise maintenance on fuel systems, pneudraulic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control and flight control systems. *Version 3:* Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hangar safety and will be able to supervise maintenance on fuel systems, pneudraulic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control and flight control systems.

Instruction: *Version 1:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management. *Version 2:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management. *Version 3:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of supervision and 3 in aviation maintenance management. See AR-1406-0090 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of supervision and 3 in aviation maintenance management (6/91). *Version 3:* In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance management and 3 in principles of supervision. See AR-1406-0090 for common core credit (3/88).

Related Occupations: 67T.

AR-1704-0151

CH-47 HELICOPTER REPAIRER SUPERVISOR BASIC
NONCOMMISSIONED OFFICER (NCO)

(CH-47 Helicopter Repairer Basic Noncommissioned Officer (NCO))

(CH-47 Medium Helicopter Repairer Basic
Noncommissioned Officer (NCO))

Course Number: *Version 1:* 600-67U30.
Version 2: 600-67U30.

Location: Transportation and Aviation
Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 14 weeks (513 hours).
Version 2: 12-13 weeks (355 hours).

Exhibit Dates: *Version 1:* 10/91–Present.
Version 2: 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories and be familiar with data communi-

cation hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hangar safety and will be able to supervise maintenance on fuel systems, pneudraulic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control and flight control systems. *Version 2:* Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories and be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hangar safety and will be able to supervise maintenance on fuel systems, pneudraulic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control and flight control systems.

Instruction: *Version 1:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management. *Version 2:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management and 2 in principles of supervision. See AR-1406-0090 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management and 2 in principles of supervision (6/91).

Related Occupations: 67U.

AR-1704-0152

OH-58 OBSERVATION/SCOUT HELICOPTER
REPAIRER BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: *Version 1:* 600-67V30.
Version 2: 600-67V30. *Version 3:* 600-67V30.

Location: Transportation and Aviation
Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 13-14 weeks (506
hours). *Version 2:* 11-12 weeks (336 hours).
Version 3: 6 weeks (217 hours).

Exhibit Dates: *Version 1:* 10/91–Present.
Version 2: 4/90–9/91. *Version 3:* 1/90–3/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hangar safety and will be able to supervise maintenance on fuel systems, pneudraulic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control, and flight control systems. *Version 2:* Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hangar safety and will be

able to supervise maintenance on fuel systems, pneudraulic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control, and flight control systems. *Version 3:* Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hangar safety and will be able to supervise maintenance on fuel systems, pneudraulic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control, and flight control systems.

Instruction: *Version 1:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management. *Version 2:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management. *Version 3:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management and 2 in principles of supervision. See AR-1406-0090 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management and 2 in principles of supervision (6/91). *Version 3:* In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance management and 1 in principles of supervision. See AR-1406-0090 for common core credit (3/88).

Related Occupations: 67V.

AR-1704-0153

AH-1 ATTACK HELICOPTER REPAIRER SUPERVISOR
BASIC NONCOMMISSIONED OFFICER (NCO)
(AH-1 Attack Helicopter Repairer Basic
Noncommissioned Officer (NCO))

Course Number: *Version 1:* 600-67Y30.
Version 2: 600-67Y30. *Version 3:* 600-67Y30.

Location: Transportation and Aviation
Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 15-16 weeks (570
hours). *Version 2:* 13-14 weeks (401 hours).
Version 3: 7-8 weeks (210 hours).

Exhibit Dates: *Version 1:* 10/91–Present.
Version 2: 4/90–9/91. *Version 3:* 1/90–3/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hangar safety and will be able to supervise maintenance on fuel systems, pneudraulic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control and flight control systems. *Version 2:* Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication

hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hangar safety and will be able to supervise maintenance on fuel systems, pneumatic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control and flight control systems. *Version 3:* Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hangar safety and will be able to supervise maintenance on fuel systems, pneumatic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control and flight control systems.

Instruction: *Version 1:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management. *Version 2:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management. *Version 3:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management and 1 in principles of supervision. See AR-1406-0090 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management and 1 in principles of supervision (6/91). *Version 3:* In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance management and 1 in principles of supervision. See AR-1406-0090 for common core credit (3/88).

Related Occupations: 67Y.

AR-1704-0154

CH-47 HELICOPTER REPAIRER

(Medium Helicopter Repairer (CH-47))

Course Number: 600-67U10.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 15-18 weeks (569-667 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to use the publications, forms, and records related to maintenance tasks, practice shop and flight line safety procedures; use common hand tools, aircraft hardware, ground support equipment; and apply safety procedures. In addition, the student will be able to locate, identify, remove and replace parts and components in the airframe and landing gear systems, utility and hydraulic systems, fuel, electrical, powerplant, rotor and powertrain systems and also assist in performing maintenance operational checks and inspections.

Instruction: Lectures, demonstrations and practical exercises in the skills needed to perform maintenance tasks and to develop the knowledge to replace and check helicopter systems components.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in helicopter maintenance (10/91).

Related Occupations: 67U.

AR-1704-0155

OH 6 RC OBSERVATION/SCOUT HELICOPTER REPAIRER (RESERVE COMPONENT)

Course Number: 600-67V10 (OH 6)

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 7-8 weeks (253 hours)

Exhibit Dates: 1/90-12/93

Learning Outcomes: Upon completion of the course, the student will be able to use the publications, forms, and records related to maintenance tasks; practice shop and flight line safety procedures; be able to use common hand tools, aircraft hardware, ground support equipment; and apply safety procedures. In addition, the student will be able to locate, identify, remove and replace parts and components in the airframe and landing gear systems, utility and hydraulic systems, fuel, electrical, powerplant, rotor and powertrain systems and also assist in performing maintenance operational checks and inspections.

Instruction: Lectures, demonstrations, and practical exercises in the skills needed to perform maintenance tasks and to develop the knowledge to replace and check helicopter systems components.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter maintenance (3/88).

Related Occupations: 67V.

AR-1704-0156

AH-64 ATTACK HELICOPTER REPAIRER

Course Number: 600-67R10.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 15-18 weeks (573-662 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to use the publications, forms, and records related to maintenance tasks, practice shop and flight line safety procedures; be able to use common hand tools, aircraft hardware, ground support equipment; and apply safety procedures. In addition, the student will be able to locate, identify, remove and replace parts and components in the airframe and landing gear systems, utility and hydraulic systems, fuel, electrical, powerplant, rotor and powertrain systems and also assist in performing maintenance operational checks and inspections.

Instruction: Lectures, demonstrations and practical exercises in the skills needed to perform maintenance tasks and to develop the knowledge to replace and check helicopter systems components.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in helicopter maintenance (6/91).

Related Occupations: 67R.

AR-1704-0157

AIRBORNE LASER TRACKER (ALT) MAINTENANCE REPAIRER

Course Number: 4D14/600141

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 2 weeks (63 hours)

Exhibit Dates: 1/90-12/93

Learning Outcomes: Upon completion of the course, the student will be able to maintain airborne laser tracking systems and operate supporting test equipment.

Instruction: Lectures and practical exercises to understand the principles of operation, testing, and maintenance procedures on airborne laser tracking systems.

Credit Recommendation: Credit is not recommended because of the limited-specialized nature of the course (3/88).

AR-1704-0158

AH-64 ATTACK HELICOPTER REPAIRER TRANSITION

Course Number: *Version 1:* 600-67R20/30-T. *Version 2:* 600-67R20/30-T.

Location: *Version 1:* Aviation Logistics School, Ft. Eustis, VA. *Version 2:* Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 6 weeks (217 hours). *Version 2:* 8-9 weeks (310 hours).

Exhibit Dates: *Version 1:* 4/91-Present. *Version 2:* 1/90-3/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform AH-64 safety check procedures including weapons and external canopy jettison system safety, laser safety, and awareness of turning rotor blades, APU and engine exhaust. The student will be able to distinguish materials and methods of construction in assemblies and structures and identify major airframe sections. The student will be able to assemble the helicopter mounted maintenance crane and maintain and replace airframe components. The student will be able to perform aviation unit maintenance and intermediate maintenance including component removal, installation, adjustment, and repositioning of repair parts. The student will be able to perform limited visual inspections, identify and maintain common and special tools, identify and select correct fuels and lubricants, and utilize proper shop and flight line safety procedures. *Version 2:* Upon completion of the course, the student will be able to perform AH-64 safety check procedures including weapons and external canopy jettison system safety, laser safety, and awareness of turning rotor blades, APU and engine exhaust. The student will be able to distinguish materials and methods of construction in assemblies and structures and identify major airframe sections. The student will be able to assemble the helicopter mounted maintenance crane and maintain and replace airframe components. The student will be able to perform aviation unit maintenance and intermediate maintenance including component removal, installation, adjustment, and repositioning of repair parts. The student will be able to perform limited visual inspections, identify and maintain common and special tools, identify and select correct fuels and lubricants, and utilize proper shop and flight line safety procedures.

Instruction: *Version 1:* Lectures, practical exercises, and examinations on tools and repair manuals, airframe, utility, landing gear, fuel, drive, flight control, rotor, hydraulic, electrical, instrument and avionics, and armament and fire

control systems plus powerplant and auxiliary and ground power units. *Version 2:* Lectures, practical exercises, and examinations on tools and repair manuals, airframe, utility, landing gear, fuel, drive, flight control, rotor, hydraulic, electrical, instrument and avionics, and armament and fire control systems plus powerplant and auxiliary and ground power units.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 5 semester hours in helicopter maintenance (3/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 4 semester hours in helicopter maintenance (3/88).

Related Occupations: 67R.

AR-1704-0159

AIRCRAFT ARMAMENT MISSILE SYSTEMS REPAIRER

Course Number: 646-ASIX1 (68J).

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 11-12 weeks (387 hours).

Exhibit Dates: 1/90-9/92.

Learning Outcomes: Upon completion of the course, the student will be able to perform maintenance tasks on the following AH-64 systems: target acquisition and designation, night vision sensor, integrated helmet and display sight, area weapon, aerial rocket control, point target weapons, boresight and chaff.

Instruction: Includes lectures, demonstrations and performance exercises in principles of operation, troubleshooting, testing, component replacement, operational checks, and specialized maintenance procedures.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/91).

Related Occupations: 68J.

AR-1704-0160

UTILITY/CARGO AND OBSERVATION AIRPLANE
SUPERVISOR ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: 600-67G40.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 8-9 weeks (229 hours).

Exhibit Dates: 1/90-12/93.

Learning Outcomes: Upon completion of the course, the student will be able to apply policies and standards of aviation maintenance management, determine training requirements, counsel personnel, apply production and quality control procedures, introduce unit safety programs, conduct maintenance shop performance indicators and inspections, comply with aviation logistics and supply procedures, maintain and confirm the accuracy of aviation forms and records, prepare readiness reports, and be familiar with the operation of data communication hardware and software.

Instruction: Lectures and practical exercises in the administration of a maintenance management program.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in administrative management. See AR-1404-0035 for common core credit (3/88).

Related Occupations: 67G.

AR-1704-0161

OV-1 OBSERVATION AIRPLANE TECHNICAL
INSPECTOR

Course Number: 600-66H20.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 14-15 weeks (547 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform nondestructive inspections, inspect powerplant hot section, cold section and accessory modules, operate and inspect pneudraulic systems including landing gear, understand the fundamentals and inspection techniques of structural repairs, perform troubleshooting and analyze electrical/electronic systems and compute weight and balance data.

Instruction: Lectures, demonstrations and practical exercises in inspection techniques, procedures, performance evaluation, and operational checks on the powerplant, structure, and systems of aircraft.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft structural and systems inspections, 3 in aircraft powerplant inspections and 1 in nondestructive testing (3/88).

Related Occupations: 66H.

AR-1704-0162

TACTICAL TRANSPORT HELICOPTER TECHNICAL
INSPECTOR

Course Number: 600-66T20.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 13 weeks (475 hours).

Exhibit Dates: 1/90-3/90.

Learning Outcomes: Upon completion of the course, the student will be able to perform nondestructive inspections, inspect powerplant hot section, cold section and accessory modules, operate and inspect pneudraulic systems including landing gear, understand the fundamentals and inspection techniques of helicopter structural repairs, perform troubleshooting and analyze electrical/electronic systems and compute weight and balance data.

Instruction: Lectures, demonstrations and practical exercises in inspection techniques, procedures, performance evaluation, and operational checks on the powerplant, structure, and systems of helicopters.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter structural and systems inspections, 3 in helicopter powerplant inspections and 1 in nondestructive testing (3/88).

Related Occupations: 66T.

AR-1704-0163

AH-64 ATTACK/OH-58D SCOUT HELICOPTER
REPAIRER SUPERVISOR ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 600-67R40.
Version 2: 600-67R40.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 8-9 weeks (303 hours).
Version 2: 9-10 weeks (173-174 hours).

Exhibit Dates: *Version 1:* 10/91-Present.
Version 2: 1/90-9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to apply policies and standards of aviation maintenance management, determine training requirements, counsel personnel, apply production and quality control procedures, introduce unit safety programs, conduct maintenance shop performance indicators and inspections, comply with aviation logistics and supply procedures, maintain and confirm the accuracy of aviation forms and records, prepare readiness reports, and be familiar with the operation of data communication hardware and software. *Version 2:* Upon completion of the course, the student will be able to apply policies and standards of aviation maintenance management, determine training requirements, counsel personnel, apply production and quality control procedures, introduce unit safety programs, conduct maintenance shop performance indicators and inspections, comply with aviation logistics and supply procedures, maintain and confirm the accuracy of aviation forms and records, prepare readiness reports, and be familiar with the operation of data communication hardware and software.

Instruction: *Version 1:* Lectures and practical exercises in the administration of a maintenance management program. *Version 2:* Lectures and practical exercises in the administration of a maintenance management program.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in administrative management. See AR-1404-0035 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in administrative management (6/91).

Related Occupations: 67R.

AR-1704-0164

UH-60 HELICOPTER REPAIRER SUPERVISOR
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

(Utility/Tactical Transport Helicopter
Repairer Supervisor Advanced Non-
commissioned Officer (NCO))

Course Number: *Version 1:* 600-67T40.
Version 2: 600-67T40.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 8-9 weeks (303 hours).
Version 2: 9-10 weeks (146 hours).

Exhibit Dates: *Version 1:* 10/91-Present.
Version 2: 1/90-9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to apply policies and standards of aviation maintenance management, determine training requirements, counsel personnel, apply production and quality control procedures, introduce unit safety programs, conduct maintenance shop performance indicators and inspections, comply with aviation logistics and supply procedures, maintain and confirm the accuracy of aviation forms and records, prepare readiness reports, and be familiar with the operation of data communication hardware and software. *Version 2:* Upon completion of the course, the student will be able to apply policies and standards of aviation maintenance management, determine training requirements, counsel personnel, apply production and quality control procedures, introduce unit safety programs, conduct maintenance shop performance indicators and inspections, comply with aviation logistics and supply pro-

cedures, maintain and confirm the accuracy of aviation forms and records, prepare readiness reports, and be familiar with the operation of data communication hardware and software.

Instruction: *Version 1:* Lectures and practical exercises in the administration of a maintenance management program. *Version 2:* Lectures and practical exercises in the administration of a maintenance management program.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in administrative management. See AR-1404-0035 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in administrative management (6/91).

Related Occupations: 67T.

AR-1704-0165

CH-47 HELICOPTER REPAIRER SUPERVISOR
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

(CH-47 Medium/CH-54 Heavy Lift Helicopter Repairer Supervisor Advanced Non-commissioned Officer (NCO))

Course Number: *Version 1:* 600-67U40.
Version 2: 600-67U40.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 8-9 weeks (303 hours).
Version 2: 9-10 weeks (146 hours).

Exhibit Dates: *Version 1:* 10/91–Present.
Version 2: 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to apply policies and standards of aviation maintenance management, determine training requirements, counsel personnel, apply production and quality control procedures, introduce unit safety programs, conduct maintenance shop performance indicators and inspections, comply with aviation logistics and supply procedures, maintain and confirm the accuracy of aviation forms and records, prepare readiness reports, and be familiar with the operation of data communication hardware and software. *Version 2:* Upon completion of the course, the student will be able to apply policies and standards of aviation maintenance management, determine training requirements, counsel personnel, apply production and quality control procedures, introduce unit safety programs, conduct maintenance shop performance indicators and inspections, comply with aviation logistics and supply procedures, maintain and confirm the accuracy of aviation forms and records, prepare readiness reports, and be familiar with the operation of data communication hardware and software.

Instruction: *Version 1:* Lectures and practical exercises in the administration of a maintenance management program. *Version 2:* Lectures and practical exercises in the administration of a maintenance management program.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 4 semester hours in administrative management. See AR-1404-0035 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 4 semester hours in administrative management (6/91).

Related Occupations: 67U.

AR-1704-0166

AIRCRAFT COMPONENT REPAIRER SUPERVISOR
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

Course Number: *Version 1:* 600-67K40.
Version 2: 600-67K40 *Version 3:* 600-67K40

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 10-11 weeks (393 hours). *Version 2:* 12-13 weeks (249 hours).
Version 3: 9-10 weeks (342 hours).

Exhibit Dates: *Version 1:* 10/91–Present.
Version 2: 4/90–9/91. *Version 3:* 1/90–3/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to apply policies and standards of aviation maintenance management, determine training requirements, counsel personnel, apply production and quality control procedures, introduce unit safety programs, conduct maintenance shop performance indicators and inspections, comply with aviation logistics and supply procedures, maintain and confirm the accuracy of aviation forms and records, prepare readiness reports, and be familiar with the operation of data communication hardware and software. *Version 2:* Upon completion of the course, the student will be able to apply policies and standards of aviation maintenance management, determine training requirements, counsel personnel, apply production and quality control procedures, introduce unit safety programs, conduct maintenance shop performance indicators and inspections, comply with aviation logistics and supply procedures, maintain and confirm the accuracy of aviation forms and records, prepare readiness reports, and be familiar with the operation of data communication hardware and software. *Version 3:* Upon completion of the course, the student will be able to apply policies and standards of aviation maintenance management, determine training requirements, counsel personnel, apply production and quality control procedures, introduce unit safety programs, conduct maintenance shop performance indicators and inspections, comply with aviation logistics and supply procedures, maintain and confirm the accuracy of aviation forms and records, prepare readiness reports, and be familiar with the operation of data communication hardware and software.

Instruction: *Version 1:* Lectures and practical exercises in the administration of a maintenance management program. *Version 2:* Lectures and practical exercises in the administration of a maintenance management program. *Version 3:* Lectures and practical exercises in the administration of a maintenance management program.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in administrative management. See AR-1404-0035 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in administrative management (6/91). *Version 3:* In the lower-division baccalaureate/associate degree category, 4 semester hours in administrative management. See AR-1404-0035 for common core credit (3/88).

Related Occupations: 67K.

AR-1704-0167

AIRCRAFT ARMAMENT/MISSILE SYSTEMS REPAIRER
SUPERVISOR ADVANCED
NONCOMMISSIONED OFFICER (NCO)
(Aircraft Fire Control Systems Supervisor
Advanced Noncommissioned Officer
(NCO))

Course Number: *Version 1:* 646-68J40.
Version 2: 646-68J40

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 8-9 weeks (303 hours).
Version 2: 9-10 weeks (146 hours).

Exhibit Dates: *Version 1:* 10/91–Present.
Version 2: 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to apply policies and standards of aviation maintenance management, determine training requirements, counsel personnel, apply production and quality control procedures, introduce unit safety programs, conduct maintenance shop performance indicators and inspections, comply with aviation logistics and supply procedures, maintain and confirm the accuracy of aviation forms and records, prepare readiness reports, and be familiar with the operation of data communication hardware and software. *Version 2:* Upon completion of the course, the student will be able to apply policies and standards of aviation maintenance management, determine training requirements, counsel personnel, apply production and quality control procedures, introduce unit safety programs, conduct maintenance shop performance indicators and inspections, comply with aviation logistics and supply procedures, maintain and confirm the accuracy of aviation forms and records, prepare readiness reports, and be familiar with the operation of data communication hardware and software.

Instruction: *Version 1:* Lectures and practical exercises in the administration of a maintenance management program. *Version 2:* Lectures and practical exercises in the administration of a maintenance management program.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in administrative management. See AR-1404-0035 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in administrative management (6/91).

Related Occupations: 67J.

AR-1704-0169

ORGANIZATIONAL MAINTENANCE SUPERVISORS

Course Number: LOG 213 (OMS-33).

Location: Combined Arms Training Center, Vilsack, W. Germany.

Length: 2 weeks (65 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to select and interpret the required regulations, manuals, pamphlets, and forms; determine the materials and requirements for establishing on-the-job training, driver training, safety, operations, and readiness programs; select test equipment and perform several common maintenance tests.

Instruction: Lectures and seminars in assembling data and completing various forms and reports necessary to properly supervise an organizational maintenance facility.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/88).

AR-1704-0170

M60-M113A1 SERIES UNIT MAINTENANCE
TRAINING

Course Number: TVM 218.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 3 weeks (102 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to use repair manuals to perform track vehicle maintenance in the areas of suspension systems, fuel systems, exhaust systems, air intake systems, band adjustment on the transmission, and removal and installation of diesel engines; perform troubleshooting techniques in the starting, charging, and electrical systems.

Instruction: Lectures and laboratory exercises in troubleshooting the electrical systems with proper test equipment and performing track vehicle maintenance procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in maintenance procedures (10/88).

AR-1704-0171

WHEEL AND POWER GENERATION UNIT
MAINTENANCE

Course Number: WPG-222.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 3 weeks (112 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to locate, operate, and troubleshoot using test equipment on light and heavy trucks to isolate and repair faults in the cooling, air, fuel, and electrical systems; able to locate, operate, and troubleshoot using test equipment on small to large portable power generators to isolate and repair/replace components in the mechanical and electrical systems.

Instruction: Conference and practical exercises. Topics include safety, basic electrical and mechanical fundamentals on automotive and power generating equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance procedures (10/88).

AR-1704-0172

AIR TRAFFIC CONTROL SYSTEMS, SUBSYSTEMS,
AND EQUIPMENT REPAIRER SUPERVISOR
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

Course Number: 102-93D40.

Location: Aviation Center, Ft. Rucker, AL.

Length: 8-9 weeks (326-332 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform as a noncommissioned officer in MOS 93D40.

Instruction: Topics include aviation subjects in general, field site training, and related skills, with an emphasis on maintenance supervision.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hour in maintenance management. See AR-1404-0035 for common core credit (4/90).

Related Occupations: 93D.

AR-1704-0173

FLIGHT OPERATIONS BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: 556-93P30.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4 weeks (160 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide leadership in flight operations facility.

Instruction: Studies in leadership, military skills, professional skills, resource management, training management, airfield procedures, tactical operations, flight planning procedures, vehicle loading, marshalling procedures, field management training, supervision of dispatch and flight planning area and publications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in airfield/airport operations management. See AR-1406-0090 for common core credit (4/90).

Related Occupations: 93P.

AR-1704-0174

FLIGHT OPERATIONS ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: 556-93P40.

Location: Aviation Center, Ft. Rucker, AL.

Length: 8-9 weeks (324-333 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide supervision, management, and training in a flight operations facility.

Instruction: Topics include aviation safety, administrative procedures, flight programs, field training, tactical operations, and reports.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in air traffic management. See AR-1404-0035 for common core credit (4/90); in the upper-division baccalaureate category, 3 semester hours in advanced airfield/airport operations management (4/90).

Related Occupations: 93P.

AR-1704-0175

AIR TRAFFIC CONTROL OPERATOR BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 222-93C30.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4 weeks (153 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide basic leadership in an air traffic control facility.

Instruction: Training in leadership, professional skills, resource management, training management, air traffic control facility operations, administration, training programs, and supervisory tasks for fixed-base and tactical operations.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (4/90).

Related Occupations: 93C.

AR-1704-0176

AIR TRAFFIC CONTROL OPERATOR ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: 222-93C40.

Location: Aviation Center, Ft. Rucker, AL.

Length: 9 weeks (326-345 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage the site and field training for air traffic control facilities.

Instruction: Lectures and practical exercises in unit training and administration, supply, communications and security management, preventive medicine and survival, civil operations, air traffic control procedures, personnel management and training, facility management, advanced air traffic control procedures, site selection, and field training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in air traffic management. See AR-1404-0035 for common core credit (4/90); in the upper-division baccalaureate category, 3 semester hours for field experience in air traffic control (4/90).

Related Occupations: 93C.

AR-1704-0177

AIR TRAFFIC CONTROL OPERATOR

Course Number: 222-93C10.

Location: Aviation Center, Ft. Rucker, AL.

Length: 12-15 weeks (457-541 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, enlisted personnel will be able to perform air traffic control duties at apprentice level knowledge of visual flight rules (VFR), instrument flight rules (IFR), air traffic control regulations, concepts, and procedure.

Instruction: Includes lectures and practical experience in basic air traffic control VFR and IFR, and control tower operations, including aviation weather, Federal Aviation Regulation and air traffic control procedures in radar and GCA and tactical ATC equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control (4/90).

AR-1704-0178

FLIGHT OPERATIONS COORDINATOR

Course Number: 556-93P10.

Location: Aviation Center, Ft. Rucker, AL.

Length: 7 weeks (250 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to schedule and coordinate aircraft flight operations and perform related support functions.

Instruction: Lecture and practical exercises to include: land navigation, aeronautical charts, flight information publications, notices to airmen, airfield operations, administration and communications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation flight operations (4/90).

AR-1704-0179

AVIONICS EQUIPMENT MAINTENANCE SUPERVISOR
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

Course Number: 102-35P40

Location: Aviation Center, Ft. Rucker, AL

Length: 8.9 weeks (313-331 hours)

Exhibit Dates: 1/90–Present

Learning Outcomes: Upon completion of the course, the student will be able to implement effective group communications, resource management, quality control, and leadership functions

Instruction: Topics include leadership, communication skills, training management, supervision of aviation/avionics communications and electrical/electronic systems equipment.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-(0035 (4/90).

Related Occupations: 35P.

AR-1704-0180

AH-64 AIRCRAFT POWERTRAIN REPAIRER

Course Number: 602-ASIX1 (68D).

Location: Aviation Center, Ft. Rucker, AL.

Length: 3-4 weeks (115 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform aviation maintenance on the AH-64 attack helicopter powertrain systems and allied equipment.

Instruction: Consists of lectures, demonstrations, and hands-on disassembly, repair, and assembly of all gear boxes and transmission of the AH-64 helicopter.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in powertrain repair (aircrafts) (4/90).

AR-1704-0181

TURBINE ENGINE DRIVER GENERATOR REPAIRER

Course Number: 662-52F10.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 12-13 weeks (464 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will understand the principles of operations of gas turbine driven AC/DC generated sets, and be able to troubleshoot, diagnose and repair the turbine and generator.

Instruction: Lectures and demonstrations on basic electricity, gas turbine design and service procedures. Extensive laboratory and field experience in diagnosis and repair of failed units.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in gas turbine engine service, 3 in basic electricity and 2 in AC/DC generators (12/90).

AR-1704-0182

AIRCRAFT ELECTRICIAN REPAIRER SUPERVISOR
BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: Version 1: 602-68F30.
Version 2: 602-68F30.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: Version 1: 12-13 weeks (452 hours).
Version 2: 13-14 weeks (399 hours).

Exhibit Dates: Version 1: 10/91–Present.
Version 2: 4/90–9/91.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to supervise repair and maintenance of electrical and electronic systems on helicopters. Version 2: Upon completion of the course, the student will be able to supervise repair and maintenance of electrical and electronic systems on helicopters.

Instruction: Version 1: Lectures and practical exercises cover the materials required to conduct inspections on aircraft including maintenance of electrical subsystems and components and in applying the policies and procedures associated with approved aviation maintenance standards. Version 2: Lectures and practical exercises cover the materials required to conduct inspections on aircraft including maintenance of electrical subsystems and components and in applying the policies and procedures associated with approved aviation maintenance standards.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management. See AR-1406-0090 for common core credit (6/91). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management (6/91).

Related Occupations: 68F.

AR-1704-0183

AH-64 AIRCRAFT ARMAMENT MAINTENANCE
TECHNICIAN

Course Number: 4D-SQIE (AH-64).

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 13 weeks (470 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to troubleshoot and repair aircraft armament systems used on AH-64 helicopters. This includes TADS-night sensor assembly, pilot's night vision sensor, helmet, video recorder, weapons systems, external stores, aerial rocket and control system, point target weapon system, chaff dispenser, and aircraft interface subsystems.

Instruction: Lectures and practical exercises in helicopter armament systems and subsystems, basic electricity and electronics, and missile systems and subsystems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (6/91).

AR-1704-0184

AIRCRAFT STRUCTURAL REPAIRER SUPERVISOR
BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: Version 1: 603-68G30.
Version 2: 603-68G30.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: Version 1: 10-11 weeks (376 hours).
Version 2: 9-10 weeks (272 hours).

Exhibit Dates: Version 1: 10/91–Present.
Version 2: 4/90–9/91.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to inspect, evaluate and supervise aircraft struc-

tural repair. Version 2: Upon completion of the course, the student will be able to inspect, evaluate and supervise aircraft structural repair.

Instruction: Version 1: Lectures and practical exercises in applying the policies and procedures associated with approved maintenance standards. Version 2: Lectures and practical exercises in applying the policies and procedures associated with approved maintenance standards.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management. See AR-1406-0090 for common core credit (6/91). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management (6/91).

Related Occupations: 68G.

AR-1704-0185

AIRCRAFT POWERTRAIN REPAIRER SUPERVISOR
BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: Version 1: 602-68D30.
Version 2: 602-68D30.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: Version 1: 12 weeks (434 hours).
Version 2: 12 weeks (357 hours).

Exhibit Dates: Version 1: 10/91–Present.
Version 2: 4/90–9/91.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to supervise maintenance and repairs performed on helicopter powertrains, main and tail rotors, transmissions, gear boxes, and hubs. Version 2: Upon completion of the course, the student will be able to supervise maintenance and repairs performed on helicopter powertrains, main and tail rotors, transmissions, gear boxes, and hubs.

Instruction: Version 1: Lectures and practical exercises in the supervision, of powertrain systems maintenance and repair of helicopters. Version 2: Lectures and practical exercises in the supervision, of powertrain systems maintenance and repair of helicopters.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management. See AR-1406-0090 for common core credit (6/91). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management (6/91).

Related Occupations: 68D.

AR-1704-0186

AIRCRAFT POWERPLANT REPAIRER

Course Number: 601-68B10.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 15-16 weeks (576 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to troubleshoot, maintain, and repair aircraft turbine powerplants on turboshaft engines.

Instruction: Lectures and practical experience in theory, operation, maintenance, troubleshooting, and repair of various types of turboshaft turbine engines, components and subassemblies.

Credit Recommendation: In the lower-division baccalaureate/associate degree cate-

gory, 4 semester hours in turbine engine maintenance, repair and troubleshooting (6/91).

Related Occupations: 68B.

AR-1704-0187

AIRCRAFT PNEUDRAULIC REPAIRER SUPERVISOR
BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 603-68H30.
Version 2: 603-68H30.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 8-9 weeks (314 hours).
Version 2: 7-8 weeks (200 hours).

Exhibit Dates: *Version 1:* 10/91–Present.
Version 2: 4/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to supervise the maintenance of hydraulics systems and components. *Version 2:* Upon completion of the course, the student will be able to supervise the maintenance of hydraulics systems and components.

Instruction: *Version 1:* Lectures and practical exercises in applying maintenance standards including aircraft pneudraulic systems. *Version 2:* Lectures and practical exercises in applying maintenance standards including aircraft pneudraulic systems.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management. See AR-1406-0090 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management (6/91).

Related Occupations: 68H.

AR-1704-0188

AH-1 ATTACK/OH-58A/C OBSERVATION/SCOUT
HELICOPTER REPAIRER SUPERVISOR
ADVANCED NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 600-67Y40.
Version 2: 600-67Y40.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 8 weeks (303 hours).
Version 2: 9-10 weeks (260 hours).

Exhibit Dates: *Version 1:* 10/91–Present.
Version 2: 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to apply policies and standards of aviation maintenance management; determine training requirements; counsel personnel; apply production and quality control procedures; introduce unit safety programs; conduct maintenance shop performance indicators and inspections; comply with logistic and supply procedures; prepare reports; and be familiar with the operation of data communications hardware and software. *Version 2:* Upon completion of the course, the student will be able to apply policies and standards of aviation maintenance management; determine training requirements; counsel personnel; apply production and quality control procedures; introduce unit safety programs; conduct maintenance shop performance indicators and inspections; comply with logistic and supply procedures; prepare reports; and be familiar with the operation of data communications hardware and software.

Instruction: *Version 1:* Lectures and practical exercises in the administration of a maintenance

management program. *Version 2:* Lectures and practical exercises in the administration of a maintenance management program.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in administrative management. See AR-1404-0035 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in administrative management (6/91).

Related Occupations: 67Y.

AR-1704-0189

UH-1 HELICOPTER REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)
RESERVE COMPONENT

(Utility Helicopter Repairer Basic Noncommissioned Officer (NCO) Reserve Component)

Course Number: 600-67N30-RC.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 5 weeks (189 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise helicopter maintenance, repair, systems troubleshooting and inspection.

Instruction: Lectures and practical exercises on the helicopter.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft maintenance management. See AR-2201-0337 for common core credit (6/91).

Related Occupations: 67N.

AR-1704-0190

APPRENTICE AIRCRAFT MECHANIC (AIT)

Course Number: 600-67A10.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 9-10 weeks (336-376 hours).

Exhibit Dates: 10/90–12/93.

Learning Outcomes: Upon completion of the course, the student will be able to assist maintenance technicians in routine helicopter maintenance and minor repairs of two types of aircraft.

Instruction: Lectures and practical experience in basic aircraft maintenance and repair, tools and equipment, hardware, safety devices, structural repair, corrosion control and painting, powerplant maintenance and pneudraulic systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to aircraft maintenance (6/91).

Related Occupations: 67A.

AR-1704-0191

AH-64 ARMAMENT/ELECTRICAL SYSTEM REPAIRER

Course Number: 646-68X10.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 20-23 weeks (774-858 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to maintain electrical and electronic systems on aircraft.

Instruction: Lectures, demonstrations, and practical experience in all phases of basic elec-

tricity, troubleshooting, repair, and operational checks.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in electronics, 1 in introduction to aircraft maintenance, and 3 in aircraft electrical systems (3/94).

Related Occupations: 68X.

AR-1704-0192

1. AH-64 ARMAMENT/ELECTRICAL SYSTEMS REPAIRER SUPERVISOR BASIC NONCOMMISSIONED OFFICER (NCO)
2. AH-64 AIRCRAFT ARMAMENT/MISSILE SYSTEMS SUPERVISOR BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 646-68X30.
Version 2: 646-68J30 (AH-64).

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 15-16 weeks (477 hours). *Version 2:* 15-16 weeks (477 hours).

Exhibit Dates: *Version 1:* 10/91–Present.
Version 2: 4/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to repair, maintain, and supervise the electronic systems on missile guidance systems and weapons control systems. *Version 2:* Upon completion of the course, the student will be able to repair, maintain, and supervise the electronic systems on missile guidance systems and weapons control systems.

Instruction: *Version 1:* Lectures and practical exercises in AC/DC circuits, electricity and electronics, and supervision and management. *Version 2:* Lectures and practical exercises in AC/DC circuits, electricity and electronics, and supervision and management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management and 2 in electronics systems. See AR-1406-0090 for common core credit (9/92). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management and 2 in electronics systems (6/91).

Related Occupations: 68J; 68X.

AR-1704-0193

AIRCRAFT ARMAMENT/MISSILE SYSTEMS
SUPERVISOR BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: *Version 1:* 646-68J30 (AH-1). *Version 2:* 646-68J30 (AH-1).

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 17 weeks (643 hours).
Version 2: 19 weeks (609 hours).

Exhibit Dates: *Version 1:* 10/91–Present.
Version 2: 4/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to supervise the maintenance of aircraft electrical and electronic systems and perform maintenance on these systems. *Version 2:* Upon completion of the course, the student will be able to supervise and maintain aircraft electrical and electronic systems.

Instruction: *Version 1:* Lectures and practical exercises in aircraft electrical and electronic systems troubleshooting, maintenance, and aircraft maintenance supervision. *Version 2:*

Course consists of lectures and practical exercises in aircraft electrical and electronic systems troubleshooting and maintenance.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management and 3 in avionic electronics systems troubleshooting and maintenance. See AR-1406-0090 for common core credit (3/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management and 3 in aviation electronics systems troubleshooting and maintenance (6/91).

Related Occupations: 68J.

AR-1704-0194

OH-58D HELICOPTER REPAIRER
(OH-58D Advanced Scout Helicopter Repairer)

Course Number: 600-67S10.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 9-11 weeks (343-399 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform routine maintenance, inspection, and repairs to helicopters.

Instruction: Lectures and practical applications of developed skills in recordkeeping, inspection, routine maintenance, and repairs.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft maintenance/inspection (4/92).

Related Occupations: 67S.

AR-1704-0195

UH-60 HELICOPTER REPAIRER SUPERVISOR BASIC
NONCOMMISSIONED OFFICER (NCO)
RESERVE COMPONENT
(Tactical Transport Helicopter Repairer
Basic Noncommissioned Officer
(NCO) Reserve Component)

Course Number: 600-67T30-RC.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 5 weeks (196 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise the maintenance, repair and system troubleshooting of the above aircraft.

Instruction: Lectures, demonstrations and practical exercises on the aircraft.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft maintenance management. See AR-2201-0298 for common core credit (6/91).

Related Occupations: 67N.

AR-1704-0196

AIRCRAFT MAINTENANCE (CMF 67) ADVANCED
NONCOMMISSIONED OFFICER (NCO)
RESERVE

Course Number: 552-CMF 67 ANCOC-RC.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 1-2 weeks (87 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise aircraft recordkeeping, inventory control, tool calibration, safety program, and preventive maintenance on ground support equipment.

Instruction: Classroom lecture and simulated paperwork to include supply control, maintenance files, production controls, unit moves, tool calibration, and preventive maintenance checks on ground support equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of supervision. See AR-2201-0295 for common core credit (6/91).

AR-1704-0197

AH-64 AIRCRAFT PNEUDRAULICS REPAIRER

Course Number: 602-ASIX1 (68H).

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 5-6 weeks (191 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to maintain and repair aircraft pneudraulic systems.

Instruction: Lectures and practical skill development using training aids and practical aircraft projects.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft pneudraulics repair and maintenance (6/91).

Related Occupations: 68H.

AR-1704-0198

AH-64 AIRCRAFT POWERTRAIN REPAIRER

Course Number: 602-ASIX1 (68D).

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 3-4 weeks (115 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform unit and routine maintenance on aircraft powertrains.

Instruction: Lectures and practical exercises on maintenance, troubleshooting, inspection, and replacement of various aircraft powertrain components.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (6/91).

Related Occupations: 68D.

AR-1704-0199

AVIATION MAINTENANCE WARRANT OFFICER
TECHNICAL/TACTICAL CERTIFICATION

Course Number: 4D-151A.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 18 weeks (613-661 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage aircraft maintenance and logistics.

Instruction: Classroom instruction in logistics, aviation maintenance management, aeronautical technology subjects, powertrain, propulsion, structural, pneudraulics, and electrical systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree cate-

gory, 3 semester hours in administrative management (10/92).

Related Occupations: 151A.

AR-1704-0200

OBSERVATION AIRPLANE REPAIRER SUPERVISOR
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

Course Number: *Version 1:* 600-67H40.
Version 2: 600-67H40.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 8-9 weeks (303 hours).
Version 2: 9-10 weeks (346 hours).

Exhibit Dates: *Version 1:* 10/91–Present.
Version 2: 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to determine training requirements, counsel personnel, apply production and quality control procedures, introduce unit safety programs, conduct maintenance shop performance indicators and inspections, comply with aviation logistics and supply procedures, maintain and confirm accuracy of aviation forms and records, prepare readiness reports, and be familiar with the operation of data communications hardware and software. *Version 2:* Upon completion of the course, the student will be able to determine training requirements, counsel personnel, apply production and quality control procedures, introduce unit safety programs, conduct maintenance shop performance indicators and inspections, comply with aviation logistics and supply procedures, maintain and confirm accuracy of aviation forms and records, prepare readiness reports, and be familiar with the operation of data communications hardware and software.

Instruction: *Version 1:* Lectures and practical exercises in the administration of a maintenance management program. *Version 2:* Lectures and practical exercises in the administration of a maintenance management program.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in administrative management. See AR-1404-0035 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in administrative management (6/91).

Related Occupations: 67H.

AR-1704-0201

OH-58D POWERTRAIN REPAIRER

Course Number: 602-ASIW5 (68D).

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 3 weeks (97 hours).

Exhibit Dates: 1/90–12/93.

Learning Outcomes: Upon completion of the course, the student will be able to maintain and repair main and tail rotor components and parts associated with the Bell-model helicopter.

Instruction: Lectures and practical exercises on the above helicopter.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester in helicopter rotor maintenance and repair (6/91).

Related Occupations: 68D.

AR-1704-0202

OH-58D HELICOPTER REPAIRER SUPERVISOR
BASIC NONCOMMISSIONED OFFICER (NCO)

(OH-58D Scout Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO))

Course Number: *Version 1:* 600-67S30. *Version 2:* 600-67S30. *Version 3:* 600-67S30.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 15-16 weeks (579 hours). *Version 2:* 14 weeks (424 hours). *Version 3:* 7-8 weeks (189 hours).

Exhibit Dates: *Version 1:* 10/91–Present. *Version 2:* 4/90–9/91. *Version 3:* 1/90–3/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to maintain, repair, and supervise maintenance and repairs on helicopters. *Version 2:* Upon completion of the course, the student will be able to maintain, repair, and supervise maintenance and repairs on helicopters. *Version 3:* Upon completion of the course, the student will be able to supervise maintenance personnel and organize maintenance procedures on helicopters.

Instruction: *Version 1:* Lectures and practical exercises in the maintenance and repair of helicopters and supervision of personnel. *Version 2:* Lectures and practical exercises in the maintenance and repair of helicopters and supervision of personnel. *Version 3:* Lectures and practical exercises in supervision of maintenance personnel and maintenance procedures.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance and 2 in maintenance management. See AR-1404-0090 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance and 2 in maintenance management (6/91). *Version 3:* In the lower-division baccalaureate/associate degree category, 2 semester hours in maintenance management and 1 in principles of supervision (6/91).

Related Occupations: 67S.

AR-1704-0203

OH-58D POWERPLANT REPAIRER

Course Number: 601-ASIW5 (68B).

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 3 weeks (97 hours).

Exhibit Dates: 1/90–12/93.

Learning Outcomes: Upon completion of the course, the student will be able to perform unit and routine maintenance on aviation powerplants.

Instruction: Lectures and practical exercises on maintenance, troubleshooting, inspection, and replacement of various aircraft powerplant components.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (6/91).

Related Occupations: 68B.

AR-1704-0204

UH-60 HELICOPTER REPAIRER

(UH-60 Tactical Transport Helicopter Repairer)

Course Number: 600-67T10.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 13-14 weeks (483-539 hours).

Exhibit Dates: 1/90–Present

Learning Outcomes: Upon completion of the course, the student will be able to repair aircraft at the entry level.

Instruction: Lectures, programmed instruction, and practical exercises in general aircraft maintenance procedures, helicopter equipment, power plant, and powertrain maintenance, repair and inspections.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter maintenance and 2 in helicopter systems inspection and repair (4/92).

Related Occupations: 67T.

AR-1704-0205

UH-1 HELICOPTER REPAIRER

Course Number: 600-67N10.

Location: Aviation Center, Ft. Rucker, AL.

Length: 10 weeks (396 hours).

Exhibit Dates: 4/92–Present.

Learning Outcomes: Before 4/92 see AR-1704-0033. Upon completion of the course, the student will be able to perform organizational, direct, and support maintenance tasks on the UH-1 utility helicopter.

Instruction: Practical exercises and examinations on helicopter systems fundamentals, including airframe, fuel, lubrication, hydraulics, rotor, and electrical systems maintenance procedures; inspection and troubleshooting of helicopter systems and subsystems; and maintenance and troubleshooting ground-handling equipment.

Credit Recommendation: In the vocational certificate category, 7 semester hours in helicopter maintenance (3/94); in the lower-division baccalaureate/associate degree category, 3 semester hours in helicopter maintenance (3/94).

Related Occupations: 76N.

AR-1704-0206

AH-64 ARMAMENT/ELECTRICAL SYSTEM REPAIRER (TRANSITION)

Course Number: 646-68X2/30-T.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 12-13 weeks (484 hours).

Exhibit Dates: 10/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to maintain and troubleshoot helicopter systems, including electrical systems, area weapons systems, aerial rocket control systems, boresight, night vision sensor, target acquisition and designation, integrated helmet and display sight, and chaff.

Instruction: Lectures, practical exercises, and examinations on principles of operation, troubleshooting, testing, component replacement, operational checks, and specialized maintenance procedures. Fault isolation and detection of AC/DC electrical systems are also included.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC aircraft electrical systems maintenance (3/94).

Related Occupations: 68X.

AR-1704-0207

AIRCRAFT STRUCTURAL REPAIRER

Course Number: 603-68G10.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 15 weeks (539 hours).

Exhibit Dates: 10/92–Present.

Learning Outcomes: Before 10/92 see AR-1704-0100. Upon completion of the course, the student will be able to perform entry level tasks involving the support of maintenance of aircraft structural members, sheet metal surfaces, fiberglass, helicopter rotor blade repair, and fabrication of aircraft parts.

Instruction: Course involves practical exercises including aircraft riveting; repair of aircraft skin, structural member, and rotor blade; maintenance and equipment record systems; forming aircraft parts; and shop and flight line safety.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in airframe sheet metal shop and 3 in airframe structural repairs (3/94).

Related Occupations: 68G.

AR-1704-0208

AVIATION LOGISTICS OFFICER ADVANCED

Course Number: 2-55-C22.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 5 weeks (185 hours).

Exhibit Dates: 10/91–2/93.

Learning Outcomes: Upon completion of the course, the student will be able to manage material systems and have the knowledge to serve in higher positions related to both aviation and Army logistics.

Instruction: Lectures, practical exercises, and examinations in maintenance management, logistics management, advanced aviation logistics, aviation life support equipment, common technical systems, and propulsion systems. Course includes record keeping, parts procedures, aircraft safety, and life cycle analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance management (3/94); in the upper-division baccalaureate category, 2 semester hours in advanced logistics management (3/94).

AR-1704-0209

LIGHTER AIR-CUSHION VEHICLE SUPERVISOR

Course Number: 8C-F20/652-F7.

Location: Transportation School, Ft. Eustis, VA.

Length: 3 weeks (108 hours).

Exhibit Dates: 4/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform supervisory duties in the operation of the 30 ton lighter air-cushion vehicle.

Instruction: Lectures and practical exercises in the various systems, location, functions, and operation of the systems and components of the 30 ton lighter air-cushion vehicle.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (3/94).

AR-1704-0210

LIGHTER AIR-CUSHION VEHICLE 30 TON OPERATOR

Course Number: 062-ASIE6 (88K).

Location: Transportation School, Ft. Eustis, VA.

Length: 9 weeks (324 hours).

Exhibit Dates: 10/93-Present

Learning Outcomes: Before 10/93 see AR-1704-0133. Upon completion of the course, the student will be able to operate a 30 Ton lighter air-cushion vehicle.

Instruction: Lectures and practical exercises in craft operation, use of emergency equipment and procedures, logistics procedures, and operational safety.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (3/94).

Related Occupations: 88K.

AR-1704-0211

LIGHTER AIR-CUSHION 30 TON SUBSYSTEM

Course Number: 062-17.

Location: Transportation School, Ft. Eustis, VA.

Length: 3-4 weeks (130 hours).

Exhibit Dates: 10/92-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform preventive maintenance on the various subsystems of the lighter air-cushion vehicle.

Instruction: Lectures and practical exercises in the maintenance of various subsystems of the vehicle.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (3/94).

AR-1704-0213

LIGHTER AIR-CUSHION VEHICLE 30 TON
INTRODUCTION AND THEORY

Course Number: 062-ASIE6.

Location: Transportation School, Ft. Eustis, VA.

Length: 3 weeks (112 hours).

Exhibit Dates: 10/92-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform preventive maintenance on the 30 Ton lighter air-cushion vehicle.

Instruction: Lectures and practical exercises in maintaining the vehicle.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (3/94).

AR-1709-0010

AERIAL SENSOR SPECIALIST (OV-1D)

Course Number: 221-96H10.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 10 weeks (305-372 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted military personnel in operation and maintenance of an aerial sensing system.

Instruction: Lectures and practical application in the operation and maintenance of an aerial sensing system.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (5/82).

Related Occupations: 96H.

AR-1709-0011

STILL DOCUMENTATION SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: G3AZR23172 002.

Location: Technical Training Center, Lowry AFB, CO.

Length: 6-7 weeks (216-257 hours).

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to manage a still photography team in performing visual information support services including darkroom development and printing. Student will plan, supervise, and direct the operation of the team and the maintenance of the photography equipment and portable facilities at a fixed installation or under combat conditions. The student will be able to plan mobile support operations for training, documentation and briefing requirements.

Instruction: Lectures and practical exercises reinforced by application in a field operational test where the unit must plan and execute a move to support a military operation requiring visual information.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (5/90); in the upper-division baccalaureate category, 3 semester hours in the management of a photographic service (5/90).

AR-1710-0062

BRADLEY INFANTRY FIGHTING VEHICLE
COMMANDER

Course Number: 2E-F58/010-F5; 2E-F58/010-F5/7-11M30/40.

Location: Infantry School, Ft. Benning, GA.

Length: 6 weeks (242-285 hours).

Exhibit Dates: 1/90-Present.

Objectives: To Train the soldier on the capabilities, characteristics, and components of the Bradley infantry fighting vehicle.

Instruction: Lectures and practical exercises in BIFV tactical operations, driving skills, vehicle safety support weapons, and the performance of daily preventive maintenance and service.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in heavy equipment operations (10/85).

AR-1710-0063

BRADLEY INFANTRY FIGHTING VEHICLE GUNNER

Course Number: 010-11M20; 010-F6.

Location: Infantry School, Ft. Benning, GA.

Length: 4-5 weeks (141-195 hours).

Exhibit Dates: 1/90-3/90.

Objectives: To train the soldier on the capabilities, characteristics, and components of the Bradley infantry fighting vehicle.

Instruction: Lectures and practical exercises in BIFV operations and driving skills, vehicle safety support weapons, and the performance of daily preventive maintenance and service.

Credit Recommendation: In the vocational certificate category, 3 semester hours in heavy equipment operations (9/85).

AR-1710-0065

SYSTEM MECHANIC M60 SERIES VEHICLE

Course Number: CNC20.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 4-5 weeks (165 hours).

Exhibit Dates: 1/90-1/94.

Objectives: To troubleshoot and maintain hydraulic, mechanical, and electrical systems in

tanks, light trucks, and power generating equipment up to 60kw.

Instruction: Lectures and practical exercises in tank turret systems, operation and maintenance including vehicle recovery and evacuation, live engine maintenance, maintenance procedures, basic electricity, fuel systems and power generation. Included are related safety procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory or electrical shop (1/82).

Related Occupations: 63N.

AR-1710-0066

SYSTEM MECHANIC SELF-PROPELLED (SP)
ARTILLERY M109/M110 SERIES VEHICLES

Course Number: CNC22.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 6-7 weeks (234 hours).

Exhibit Dates: 1/90-1/94.

Objectives: To troubleshoot and maintain hydraulic, mechanical, and electrical systems in tanks, light trucks, and power generating equipment up to 60kw.

Instruction: Lectures and practical exercises in tank turret systems, operation, and maintenance, including vehicle recovery and evacuation, live engine maintenance, maintenance procedures, basic electricity, fuel systems, and power generation. Included are related safety procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory or electrical shop (1/82).

Related Occupations: 63D.

AR-1710-0067

SYSTEM MECHANIC SELF-PROPELLED (SP)
ARTILLERY M109/M110 SERIES VEHICLES

Course Number: CNC25.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 5-6 weeks (198 hours).

Exhibit Dates: 1/90-1/94.

Objectives: To troubleshoot and maintain hydraulic, mechanical, and electrical systems in tanks, light trucks, and generating equipment up to 60kw.

Instruction: Lectures and practical exercises in tank turret systems, operation, and maintenance, including vehicle recovery and evacuation, live engine maintenance, maintenance procedures, basic electricity, fuel systems, and power generation. Included are related safety procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory or electrical shop (1/82).

Related Occupations: 63D.

AR-1710-0068

SYSTEM MECHANIC M60 SERIES VEHICLE

Course Number: CNC24.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 5-6 weeks (198 hours).

Exhibit Dates: 1/90-Present.

Objectives: To troubleshoot and maintain hydraulic, mechanical, and electrical systems in

tanks, light trucks, and generating equipment up to 60kw.

Instruction: Lectures and practical exercises in tank turret systems, operation, and maintenance including vehicle recovery and evacuation, live engine maintenance, maintenance procedures, basic electricity, fuel systems, and power generation. Included are related safety procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory or electrical shop (1/82).

Related Occupations: 63N.

AR-1710-0069

SYSTEM MECHANIC FOR M113 SERIES VEHICLES

Course Number: CNC26.

Location: Combined Arms Training Center, Vilsack, W. Germany.

Length: 3-4 weeks (129 hours).

Exhibit Dates: 1/90-1/94.

Objectives: To troubleshoot and maintain hydraulic, mechanical, and electrical systems in tanks, light trucks, and generating equipment up to 60kw.

Instruction: Lectures and practical exercises in tank turret systems, operation, and maintenance, including vehicle recovery and evacuation, live engine maintenance, maintenance procedures, basic electricity, fuel systems, and power generation. Included are related safety procedures.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (1/82).

Related Occupations: 63T.

AR-1710-0070

SYSTEM MECHANIC M113 SERIES VEHICLE

Course Number: CNC21.

Location: Combined Arms Training Center, Vilsack, W. Germany.

Length: 4-5 weeks (165 hours).

Exhibit Dates: 1/90-1/94.

Objectives: To troubleshoot and maintain hydraulic, mechanical, and electrical systems in tanks, light trucks, and generating equipment up to 60kw.

Instruction: Lectures and practical exercises in tank turret systems, operation, and maintenance, including vehicle recovery and evacuation, live engine maintenance, maintenance procedures, basic electricity, fuel systems, and power generation. Included are related safety procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory or electrical shop (1/82).

Related Occupations: 63T.

AR-1710-0073

SYSTEM MECHANIC M60 SERIES VEHICLE

Course Number: CNC23.

Location: Combined Arms Training Center, Vilsack, W. Germany.

Length: 6-7 weeks (234 hours).

Exhibit Dates: 1/90-1/94.

Objectives: To troubleshoot and maintain hydraulic, mechanical, and electrical systems in tanks, light trucks, and generating equipment up to 60kw.

Instruction: Lectures and practical exercises in tank turret systems, operation, and maintenance, including vehicle recovery and evacuation, live engine maintenance, maintenance procedures, basic electricity, fuel systems, and power generation. Included are related safety procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory or electrical shop (1/82).

Related Occupations: 63N.

AR-1710-0080

M109-M110 ORGANIZATIONAL MAINTENANCE TRAINING

Course Number: TVM 220.

Location: Combined Arms Training Center, Vilsack, W. Germany.

Length: 3 weeks (108 hours).

Exhibit Dates: 1/90-1/94.

Objectives: To train selected supervisory personnel in troubleshooting and maintaining self-propelled howitzers.

Instruction: Lectures and practical exercises on troubleshooting and maintaining self-propelled howitzers with emphasis on electrical systems and suspension systems.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (1/82).

Related Occupations: 63D.

AR-1710-0082

ORGANIZATIONAL MECHANIC CONVERSION

Course Number: CNC28.

Location: Combined Arms Training Center, Vilsack, W. Germany.

Length: 6 weeks (216-217 hours).

Exhibit Dates: 1/90-1/94.

Objectives: To upgrade organizational mechanics in the field of heavy equipment including light and heavy vehicles, light track vehicles, and power generation equipment.

Instruction: This course consists of lectures and demonstrations with great emphasis on practical exercises, including troubleshooting light and heavy vehicles and light tracked vehicles. Emphasis is placed on the use and interpretation of diagnostic test instruments relating to the course content. Material handling equipment also forms a significant point of the course, with performance examinations being the major criteria.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in heavy equipment ignition, starting, charging, and electrical systems, 2 in heavy equipment brakes, suspension, and steering systems laboratory, 1 in heavy equipment general maintenance (1/82).

Related Occupations: 63B.

AR-1710-0084

HEAVY CONSTRUCTION EQUIPMENT OPERATOR

Course Number: 730-62E10; 62E10-OSUT; 62E10-OSUT (ST).

Location: Training Center Engineer, Ft. Leonard Wood, MO.

Length: 8-16 weeks (224-639 hours).

Exhibit Dates: 1/90-2/92.

Objectives: To train personnel as heavy construction equipment operators.

Instruction: Lectures and practical exercises in the operation of heavy equipment such as crawler tractor, front end loader, motor grader, and wheeled tractor. Course may include basic training.

Credit Recommendation: In the vocational certificate category, 3 semester hours in heavy construction equipment operation (12/83).

Related Occupations: 62E.

AR-1710-0086

GENERAL CONSTRUCTION EQUIPMENT OPERATOR

Course Number: 730-62J10; 62J10-OSUT; 62J10-OSUT (ST).

Location: Training Center Engineer, Ft. Leonard Wood, MO.

Length: 8-15 weeks (248-598 hours).

Exhibit Dates: 1/90-7/92.

Objectives: To train personnel in general construction equipment other than heavy construction equipment.

Instruction: Lectures and practical exercises in the operation of construction equipment such as sweepers, rollers, air compressors, rotary tiller, earth auger, ditching machine, and tractor. Course may include basic training.

Credit Recommendation: In the vocational certificate category, 3 semester hours in operation and maintenance of light construction equipment (12/83).

Related Occupations: 62J.

AR-1710-0087

CONSTRUCTION EQUIPMENT REPAIRER PRIMARY TECHNICAL

(Construction Equipment Repair)

Course Number: 612-62B20.

Location: Training Center Engineer, Ft. Leonard Wood, MO.

Length: 6 weeks (190-216 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide advanced training in engineering construction equipment repair.

Instruction: Lectures and practical exercises in the repair and maintenance of engineering construction equipment to include cutting and welding, air induction systems, engine fuel systems, engine removal, disassembly, repair and assembly, power trains, and pneumatic equipment. Course may include basic training.

Credit Recommendation: In the vocational certificate category, 5 semester hours in advanced maintenance and repair of engineer construction equipment (12/83).

Related Occupations: 62B.

AR-1710-0089

CONSTRUCTION EQUIPMENT OPERATOR

Course Number: 730-55131.

Location: Training Center Engineer, Ft. Leonard Wood, MO.

Length: 11 weeks (382 hours).

Exhibit Dates: 1/90-10/92.

Objectives: To provide basic skills and knowledge required to operate and maintain common construction equipment.

Instruction: This course for Air Force personnel is presented through lectures and practical experiences in basic operational skills for common construction equipment including mechanical and hydraulic cranes, clamshell and draglines, forklifts, crawler tractors, front end loaders, street sweepers, steel wheeled and pneumatic tired rollers, and water distributors.

Maintenance and safety procedures are also covered.

Credit Recommendation: In the vocational certificate category, 7 semester hours in basic construction equipment operation and maintenance (12/83).

AR-1710-0090

CONSTRUCTION EQUIPMENT OPERATOR

Course Number: 730-1345

Location: Training Center Engineer, Ft. Leonard Wood, MO

Length: 9 weeks (317 hours)

Exhibit Dates: 1/90-1/90

Objectives: To provide Marine personnel with the basic skills and knowledge required to operate and maintain common construction equipment

Instruction: Lectures and practical experiences in basic operational skills for common construction equipment including crawler tractors, front end loaders, motor graders, and forklifts. Maintenance safety procedures are also covered.

Credit Recommendation: In the vocational certificate category, 6 semester hours in basic construction equipment operation and maintenance (12/83).

AR-1710-0091

CONCRETE AND ASPHALT EQUIPMENT OPERATOR

Course Number: 62H10-OSUT; 730-62H10; 62H10-OSUT (ST).

Location: Training Center Engineer, Ft. Leonard Wood, MO.

Length: 8-15 weeks (177-512 hours).

Exhibit Dates: 1/90-4/90.

Objectives: To provide basic skills and knowledge required to operate and maintain concrete and asphalt equipment.

Instruction: Lectures and practical experiences in operation, maintenance, and safety procedures required for proper use of concrete and asphalt equipment including concrete mobile mixers, bituminous distributors, asphalt kettle, ISKW generator, oil heater, asphalt melter, dryer-mixer, and aggregate spreader. Maintenance of flexible pavement is included. Course may include basic training.

Credit Recommendation: In the vocational certificate category, 3 semester hours in operation and maintenance of basic concrete and asphalt equipment (12/83).

Related Occupations: 62H.

AR-1710-0092

LIFTING AND LOADING EQUIPMENT OPERATOR

Course Number: 62F10-OSUT; 730-62F10; 62F10-OSUT (ST).

Location: Training Center Engineer, Ft. Leonard Wood, MO.

Length: 9-16 weeks (276-611 hours).

Exhibit Dates: 1/90-3/92.

Objectives: To train personnel in the proper use and maintenance of lifting and loading equipment.

Instruction: Lectures and practical experiences to provide the skills needed to operate and maintain equipment such as forklifts, mechanical cranes, clamshell and dragline, and hydraulic cranes.

Credit Recommendation: In the vocational certificate category, 3 semester hours in opera-

tion and maintenance of lifting and loading equipment (12/83).

Related Occupations: 62F.

AR-1710-0095

QUARTERMASTER/CHEMICAL EQUIPMENT REPAIRER BASIC TECHNICAL

(Quartermaster/Chemical Equipment Repairer)

Course Number: 690-63J30.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD

Length: 7-8 weeks (274-279 hours).

Exhibit Dates: 1/90-9/90

Objectives: To train enlisted personnel in management and supervision in the mechanical equipment maintenance field.

Instruction: Lectures and practical exercises in shop management and maintenance procedures, leadership and training skills, counseling and personnel evaluation, and inspecting, testing, supervising the maintenance and repair of various items of mechanical equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in supervision and 3 in basic management techniques (11/86).

AR-1710-0101

M1 ABRAMS TANK FIRE CONTROL SYSTEMS REPAIRER

Course Number: 113-ASIL8 (45G).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 3-4 weeks (126 hours).

Exhibit Dates: 1/90-9/90.

Objectives: To teach enlisted personnel to perform maintenance on fire control system and related test equipment of the M1 Abrams tank.

Instruction: This course will instruct and train maintenance personnel to test and repair gunner's primary sight, direct support electrical system test set, laser rangefinder, computer control panel, electronic units, line of sight electronic unit, thermal image system test set, thermal mock-up system, power control unit, image control unit, thermal receiver unit, service the laser range finder and image control.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the training (2/84).

Related Occupations: 45G; 63G.

AR-1710-0104

M1 ABRAMS TANK TURRET REPAIR

Course Number: 643-ASIL8 (45K).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 5-7 weeks (180-210 hours).

Exhibit Dates: 1/90-9/90.

Objectives: To train enlisted personnel to perform general maintenance and repair on the armament installed on specific armored vehicles.

Instruction: Instruction and practical exercises in the testing, maintenance, and repair of the various mechanical and electrical systems and components on the armaments installed on specific armored vehicles.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (2/84).

Related Occupations: 45K.

AR-1710-0105

M2/M3 BRADLEY FIGHTING VEHICLE TURRET REPAIR

Course Number: 643-ASIM5 (45K).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 4 weeks (144-157 hours)

Exhibit Dates: 1/90-9/90

Objectives: To train enlisted personnel to perform general maintenance and repair on the armament installed on specific armored vehicles.

Instruction: Instruction and practical exercises in the testing, maintenance, and repair of the various mechanical and electrical systems and components on the armament installed on specific armored vehicles.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (2/87).

Related Occupations: 45K.

AR-1710-0108

BRADLEY FIGHTING VEHICLE SYSTEMS TOW/ DRAGON REPAIRER

Course Number: 4F-F3/121-ASID3.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 4-6 weeks (134-215 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide active and reserve enlisted and warrant officer training to perform and supervise intermediate maintenance on TOW subsystems and the Bradley Fighting Vehicle.

Instruction: Personnel will be trained to troubleshoot, replace and align components and the interface of TOW subsystem with the Bradley Fighting Vehicle.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/88).

AR-1710-0109

TANK TURRET REPAIRER BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 643-45K30.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 19-20 weeks (686-711 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform maintenance on electrical/electronic and hydraulic components and systems of tank turrets and self-propelled and towed artillery.

Instruction: Lectures and practical exercises in inspection and basic knowledge and skills in electrical/electronic and hydraulic components of tank turrets and self propelled and towed vehicles.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in basic automotive electricity/electronics, 1 in basic hydraulics. See AR-1406-0090 for common core credit (10/91).

Related Occupations: 45K.

AR-1710-0110

BRADLEY FIGHTING VEHICLE SYSTEM MECHANIC BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 611-63T30.

Location: Armor Center and School, Ft. Knox, KY.

Length: 17-18 weeks (638-639 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise enlisted personnel in the maintenance of vehicles. The student will also be competent in basic maintenance procedures and be able to teach basic principles to others.

Instruction: Lectures in leadership skills and service facility management. Vehicle systems maintenance, and service techniques, inspection and testing of electrical, fuel, and accessory systems on heavy vehicles are included. Practice in the use of service manuals and completion of appropriate records.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in automotive fundamentals, 2 in equipment maintenance, and 3 in heavy equipment service. See AR-1406-0090 for common core credit (12/90); in the upper-division baccalaureate category, 2 semester hours in service management (12/90).

Related Occupations: 45K; 63T.

AR-1710-0111

TRACK VEHICLE REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 611-63H30.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 18-19 weeks (648-674 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise maintenance procedures and to perform general maintenance, repair, troubleshooting, and inspection on wheel and tracked vehicles.

Instruction: Lectures, demonstrations, and practical exercises in internal combustion engines, fuel and electrical systems, starters, regulators, alternators, brake system components, hydraulic principles, steering and suspension systems, engine tune-up and measuring tools; construction, operation, and diagnostic testing procedures are stressed.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in heavy equipment repair, 2 in diesel engine systems and 3 in basic automotive electrical systems. See AR-1406-0090 for common core credit (3/92).

Related Occupations: 63H.

AR-1710-0112

SELF-PROPELLED FIELD ARTILLERY SYSTEM BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 611-63D30 (08T2); 611-63D30.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 8 weeks (320 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to train enlisted personnel to perform organizational maintenance and repair on self-propelled field artillery cannon weapon systems and light and medium recovery vehicles.

Instruction: Topics include training of a maintenance noncommissioned officer in a tactical environment, general military training subjects, logistical training, and recovery

operations; those in MOS 63D will also learn armament maintenance; those in MOS 45D will have instruction in replacing, removing/installing, inspecting, testing, and troubleshooting components/systems of tracked vehicles.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in heavy equipment maintenance/repair management, and 2 in automotive and heavy equipment repair. See AR-1406-0090 for common core credit (9/90).

Related Occupations: 45D; 63D.

AR-1710-0113

M1 ABRAMS TANK VEHICLE REPAIRER

Course Number: 610-ASIL8 (63H).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 3-4 weeks (132 hours).

Exhibit Dates: 1/90–9/90.

Learning Outcomes: Upon completion of the course, the student will be able to perform maintenance on light automotive components on specialized track vehicles.

Instruction: Includes turbine engine construction and operation; removal and replacement of engine; troubleshooting engine; hydraulic systems, performance testing and troubleshooting; track link repair and adjustment; transmission removal and disassembly, inspection, repair and installation.

Credit Recommendation: In the vocational certificate category, 1 semester hour in transmission mechanic for heavy track vehicle (3/87); in the lower-division baccalaureate/associate degree category, 2 semester hours in turbine engine laboratory (3/87).

Related Occupations: 63H.

AR-1710-0114

TANK TURRET REPAIRER (USA/USA-ST)
(Tank Turret Repairman (USMC))

Course Number: 643-45K10 (CT); 643-2146 (45K).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: Army, 20 weeks; Marine Corps, 13 weeks (468 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to maintain the mechanical, electrical, and hydraulic components on tank turrets.

Instruction: Instruction and practical exercises in testing, maintenance, and repair of various mechanical, electrical, and electronic components of tank turrets.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in automotive electrical or 1 in maintenance technology (12/90).

Related Occupations: 45K.

AR-1710-0115

WARRANT OFFICER TECHNICAL/TACTICAL
CERTIFICATION

(Allied Trades Technician Warrant Officer
Technical/Tactical Certification)

Course Number: 4L-914A.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: (634-635), 17-18 weeks.

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to assume the duties and responsibilities of managing track vehicle repair facilities and machine shop and welding facility shops.

Instruction: Methods of instruction include lecture, demonstration, shop experience and field trials. Topics covered include communication skills, inventory control, machining, welding, and body repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in automotive body repair, 2 in communication skills, 2 in automotive electricity, 2 in arc welding, 1 in inert gas welding, 5 in basic machine shop (lathes), 5 in advanced machine shop (12/90); in the upper-division baccalaureate category, 3 semester hours in maintenance management (12/90).

AR-1710-0116

WARRANT OFFICER TECHNICAL/TACTICAL
CERTIFICATION

(Unit Maintenance Technician (Light) Warrant Officer Technical/Tactical Certification)

Course Number: 4L-915A.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 17-18 weeks (626 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to assume the duties and responsibilities of managing an automotive facility involving tracked vehicles and truck/trailer wheeled vehicles.

Instruction: Course content includes professional development subjects, maintenance management, wheel vehicle maintenance, power generation, and building maintenance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in communication skills, 3 in basic electrical laboratory, and 3 in automotive electricity (12/90); in the upper-division baccalaureate category, 5 semester hours in maintenance management (12/90).

Related Occupations: del.

AR-1710-0117

HEAVY WHEEL VEHICLE RECOVERY SPECIALIST

Course Number: 610-ASIH8 (63S).

Location: Training Center, Ft. Jackson, SC.

Length: 3 weeks (106 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate and use wheeled vehicle recovery vehicles (heavy-duty wrecker) and equipment to recover and transport wheeled vehicles.

Instruction: Includes operation, service, and use of recovery vehicles (heavy duty wrecker) and equipment and procedures used in the recovery and transportation of heavy wheeled vehicles.

Credit Recommendation: In the vocational certificate category, 3 semester hours in truck driving (3/87).

Related Occupations: 63S.

AR-1710-0118

WHEEL VEHICLE RECOVERY SPECIALIST

Course Number: 610-ASIH8 (63W).

Location: Ordnance Center and School
Aberdeen Proving Ground, MD

Length: 2 weeks (80-81 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to operate wheeled recovery vehicles and associated equipment to recover and transport wheeled vehicles.

Instruction: Instruction includes operation, servicing, and use of recovery vehicles and equipment and procedures used in recovery and transport.

Credit Recommendation: In the vocational certificate category, 2 semester hours in truck driving (3/87).

Related Occupations: 63W.

AR-1710-0119

WHEEL VEHICLE REPAIRER INDIVIDUAL READY
RESERVE REFRESHER

Course Number: 610-F3 (IRR).

Location: Ordnance Center and School,
Aberdeen Proving Ground, MD.

Length: 2 weeks (76 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will understand the basic principles of the operation of the different types of diesel fuel systems, including Cummins, Detroit Diesel, Stanadyne DB-2, and Bosch distributor pumps, engines, brake systems, and electrical systems. The student, with the use of diagnostic equipment, will troubleshoot malfunctions in the fuel, engine, electrical, transmission, brake, engine retarder, power train, suspension, steering, and hydraulic systems of a heavy truck.

Instruction: Includes lectures on the basic principles of operation of the internal combustion engine, fuel system, electrical system, and associated maintenance. Hands-on instruction includes troubleshooting using diagnostic test equipment to troubleshoot malfunctions in the fuel, engine, electrical, transmission, brake, engine retarder, power train, suspension, steering, and hydraulic system of a heavy highway type truck tractor/truck.

Credit Recommendation: In the vocational certificate category, 2 semester hours in heavy truck mechanic (3/87).

Related Occupations: 63W.

AR-1710-0121

LIGHT WHEEL VEHICLE MECHANIC INDIVIDUAL
READY RESERVE REFRESHER

Course Number: 610-63B20-IRR.

Location: Ordnance Center and School,
Aberdeen Proving Ground, MD.

Length: 2 weeks (75 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to use the skill and knowledge for the MOS in which he was trained.

Instruction: Instruction includes a refresher course in vehicle maintenance including such topics as maintenance management, principles of fuel systems, brake systems, electrical systems, and troubleshooting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in automotive maintenance management (3/87).

AR-1710-0122

LIGHT WHEEL VEHICLE MECHANIC INDIVIDUAL
READY RESERVE REFRESHER

Course Number: 610-63B30-IRR.

Location: Ordnance Center and School,
Aberdeen Proving Ground, MD.

Length: 2 weeks (75 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to supervise and to perform preventive maintenance and troubleshooting on light and medium duty wheel, track vehicle, and power generation equipment.

Instruction: Lectures on management, preventive maintenance, and troubleshooting of gasoline engines, diesel engines, electrical systems, brakes, hydraulic systems and power generation equipment maintenance. Some hands-on experience is included.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in preventive maintenance supervision (3/87).

Related Occupations: 63B.

AR-1710-0123

ARMAMENT REPAIR TECHNICIAN WARRANT
OFFICER ADVANCED

Course Number: 4-9-C32-421A.

Location: Ordnance Center and School,
Aberdeen Proving Ground, MD.

Length: (546-549), 15 weeks.

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage, maintain, and repair armament equipment as needed. Also be able to keep maintenance records on armament equipment repair, and maintain the electrical and laser systems on armament equipment through a management position.

Instruction: Instruction includes lectures and hands-on with emphasis on management, maintenance management and communication skills. Considerable emphasis is placed on the electrical and laser systems on armament equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in communication skills, 1 in management, 1 in heavy equipment maintenance management, 4 in basic electronics, and 2 in automotive electrical (3/87).

AR-1710-0124

TRACK VEHICLE RECOVERY SPECIALIST

Course Number: 611-ASI-H8 (63H) (63Y) (63D).

Location: Ordnance Center and School,
Aberdeen Proving Ground, MD.

Length: 4-5 weeks (166-167 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate recovery vehicles and equipment to recover vehicles in various situations.

Instruction: Instruction includes lecture, operation and servicing of recovery vehicles and equipment. Procedures used in the recovery of disabled track vehicles, oxyacetylene cutting, selection of rigging equipment, and rigging are also covered.

Credit Recommendation: In the vocational certificate category, 4 semester hours in heavy equipment operation (10/88).

Related Occupations: 63D, 63H, 63Y.

AR-1710-0126

TRACK VEHICLE MECHANIC INDIVIDUAL READY
RESERVE REFRESHER

Course Number: 611-F5 (IRR).

Location: Ordnance Center and School,
Aberdeen Proving Ground, MD.

Length: 2 weeks (94-95 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to understand the basic principles of operation of the internal combustion engine, fuel system, electrical system (includes starting and charging), hydraulic system and tracked vehicle power train/brakes. The student will, with the use of diagnostic test equipment, references, and basic knowledge be able to troubleshoot and record malfunctions of track-type vehicle engine, fuel, electrical, hydraulic, and power train systems.

Instruction: Instruction includes lecture on the basic principles of operation of the internal combustion engine, fuel system, electrical system (including starting and charging), hydraulic system and track vehicle power train/brakes, care and use of test equipment, hands-on troubleshooting of induced malfunctions on engine, fuel system, electrical system, hydraulic systems, and power train/brakes, and record diagnosis on correct forms.

Credit Recommendation: In the vocational certificate category, 3 semester hours in construction equipment mechanic (3/87).

AR-1710-0127

TRACK VEHICLE REPAIRER NONCOMMISSIONED
OFFICER (NCO) ADVANCED
(Mechanical Maintenance Noncommissioned Officer (NCO) Advanced, MOS 63H)

Course Number: 610-63H40; 6-63-C42 (63H).

Location: Ordnance Center and School,
Aberdeen Proving Ground, MD.

Length: 9-11 weeks (336-504 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will work as a maintenance supervisor.

Instruction: Lectures, demonstrations, and practical exercises in leadership, communication skills, fundamentals of instruction, logistics management, and refresher training in the appropriate military occupational specialty (MOS). Emphasis in on leadership and on verbal and written communication.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (1/88).

Related Occupations: 63H.

AR-1710-0128

CONSTRUCTION EQUIPMENT REPAIRER
NONCOMMISSIONED OFFICER (NCO)
ADVANCED
(Mechanical Maintenance Noncommissioned Officer (NCO) Advanced, MOS 62B)

Course Number: 612-62B40; 6-63-C42 (62B).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 8-10 weeks (280-459 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will serve as a maintenance supervisor.

Instruction: Lectures, demonstrations, and practical exercises in leadership, communication skills, fundamentals of instruction, logistics management, and refresher training in the appropriate military occupational specialty (MOS). Emphasis is on leadership and on verbal and written communication.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (1/88).

Related Occupations: 62B.

AR-1710-0129

BRADLEY FIGHTING VEHICLE SYSTEM MECHANIC
NONCOMMISSIONED OFFICER (NCO)

(Mechanical Maintenance Noncommissioned Officer (NCO) Advanced, MOS 63B, D, E, N, T)

Course Number: 611-63T40; 6-63-C42 (63B, D, E, N, T).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 8-10 weeks (295-445 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise maintenance.

Instruction: Lectures, demonstrations, and practical exercises in leadership, communication skills, fundamentals of instruction, logistics management, and refresher training in the Bradley Fighting Vehicle. Emphasis is on leadership and on verbal and written communication.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (1/88).

Related Occupations: 63B; 63D; 63E; 63N; 63T.

AR-1710-0130

TANK M60A1/A3 TANK SYSTEM MECHANIC
NONCOMMISSIONED OFFICER (NCO)
ADVANCED

(Mechanical Maintenance Noncommissioned Officer (NCO) Advanced, MOS 63B, D, E, N, T)

Course Number: 611-63N40; 6-63-C42 (63B, D, E, N, T).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 8-10 weeks (295-445 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to serve as a supervisor of M60A1/A3 tank maintenance.

Instruction: Lectures, demonstrations, and practical exercises in leadership, communication skills, fundamentals of instruction, logistics management, and refresher training in the supervision of tank maintenance. Emphasis is on leadership and on verbal and written communication.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (1/88).

Related Occupations: 63B; 63D; 63E; 63N; 63T.

AR-1710-0131

M1 ABRAMS TANK SYSTEM MECHANIC
NONCOMMISSIONED OFFICER (NCO)
ADVANCED

(Mechanical Maintenance Noncommissioned Officer (NCO) Advanced, MOS 63B, D, E, N, T)

Course Number: 611-63E40; 6-63-C42 (63B, D, E, N, T).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 8-10 weeks (295-445 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to work as a maintenance supervisor.

Instruction: Lectures, demonstrations, and practical exercises in leadership, communication skills, fundamentals of instruction, logistics management, and refresher training in maintenance supervision. Emphasis is on leadership and on verbal and written communication.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (1/88).

Related Occupations: 63B; 63D; 63E; 63N; 63T.

AR-1710-0132

LIGHT WHEEL VEHICLE MECHANIC
NONCOMMISSIONED OFFICER (NCO)
ADVANCED

(Mechanical Maintenance Noncommissioned Officer (NCO) Advanced, MOS 63B, D, E, N, T)

Course Number: 610-63B40; 6-63-C42 (63B, D, E, N, T).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 8-10 weeks (295-445 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to serve as a maintenance supervisor.

Instruction: Lectures, demonstrations, and practical exercises in leadership, communication skills, fundamentals of instruction, logistics management, and refresher training in light wheel vehicle repair. Emphasis is on leadership and on verbal and written communication.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (1/88).

Related Occupations: 63B; 63D; 63E; 63N; 63T.

AR-1710-0133

SPECIAL PURPOSE EQUIPMENT REPAIRER
NONCOMMISSIONED OFFICER (NCO)
ADVANCED

Course Number: 662-52X40.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 7 weeks (259 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise maintenance.

Instruction: Lectures, demonstrations, and practical exercises in leadership, communication skills, fundamentals of instruction, logistics management, and refresher training in equipment maintenance. Emphasis is on leadership and on verbal and written communication.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (1/88).

Related Occupations: 52X.

AR-1710-0135

M1 ABRAMS TANK RECOVERY SPECIALIST

Course Number: 611-AS1H8 (63E).

Location: Armor Center, Ft. Knox, KY.

Length: 3-4 weeks (131 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform preventive maintenance and to operate recovery vehicles and wreckers.

Instruction: Instruction includes lectures, practical exercises, and hands-on operation of recovery vehicles and wreckers, including minor repairs, adjustments, boom and winch operation, on and off the road driving skills and recovery of disabled vehicles.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in heavy equipment operation (7/87).

AR-1710-0136

ARMOR OFFICER BASIC NATIONAL GUARD/ARMY
RESERVE
(Armor Officer Basic Reserve Component)

Course Number: 2-17-C25.

Location: Armor Center, Ft. Knox, KY.

Length: 8 weeks (510-580 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the duties of an armor platoon leader.

Instruction: Instruction includes lecture and practical exercises in operation, maintenance, and tactical employment of the platoon weapons, equipment and vehicles, communication, tactical movement leadership, training of management, and navigation. Emphasis on practical field exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in management skills, 2 in basic surveying, and 4 in military science (7/92).

AR-1710-0138

M60A1/A3 TANK SYSTEMS MECHANIC

Course Number: 611-63N30.

Location: Armor Center, Ft. Knox, KY.

Length: 8-10 weeks (299-338 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform maintenance management and recovery operations. And also be able to supervise diagnostic procedures, inspection and testing of maintenance functions on engines, power trains, electrical, suspension and hydraulic systems of the hull turret.

Instruction: Instruction includes lectures, demonstrations, shop and performance exercises on maintenance management, recovery, diagnostics, and supervision, inspection, and testing of maintenance functions on power trains and electrical systems and hydraulic systems of the automotive and turret systems. Training management and basic leadership skill are also emphasized.

Credit Recommendation: In the lower division baccalaureate/associate degree category, 1 for track 1, 2 semester hours in maintenance management, 1 in automotive electricity, and 1 in automotive engines. For Track 2, 3 semester hours in maintenance management, 1 in automotive electricity, and 1 in automotive engines (7/87).

AR-1710-0139

RECOVERY SPECIALIST/ASIH8/TRACK RECOVERY OPERATIONS (M88A1/M578)
(Recovery Operations (Track))

Course Number: RCY 221T, 221T

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 2 weeks (80 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to determine correct procedures to use in recovery of disabled vehicles; state basic principles of rigging, to include mechanical advantage and lift capabilities; properly select and use ropes, cables, mechanical anchor and blocks; operate boom, hoist, and winch from hand signals; use acetylene torch to cut through metal; recover disabled or overturned tracked vehicles through proper operations with associated equipment.

Instruction: Conference classes and practical exercises in determining correct procedures, use of equipment, and load computations to recover vehicles. Knows how to recover, hoist, and tow tracked vehicles, and operate and perform maintenance on recovery equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in recovery equipment operation (10/88).

AR-1710-0142

MAINTENANCE SUPERVISOR

Course Number: LOG 215.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 2 weeks (74 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to use appropriate maintenance publications in the supervising of maintenance procedures; locate needed information for recording data on maintenance records; prepare status reports of equipment; maintain records of equipment status; prepare document register for supply actions; verify completion of maintenance services; evaluate a maintenance facility and implement a quality assurance program.

Instruction: Conferences, lectures, and practical exercises in which the student demonstrates knowledge of both the subject and the procedures, as well as the maintenance system records.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in automotive maintenance systems and administration (10/88).

AR-1710-0143

M2/3 BRADLEY FIGHTING VEHICLE (BFV) UNIT
TURRET MAINTENANCE

Course Number: TRT 316.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 2 weeks (74 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to locate components, operate, troubleshoot, and repair the mechanical systems of the 28mm automatic gun, using test equipment and repair standards; able to locate components, operate, troubleshoot, and repair the electrical, mechanical, and hydraulic systems of the M2/M3 Bradley fighting vehicle turret system.

Instruction: Lectures and conferences in electrical and mechanical system fundamentals and safety. Practical exercises in component location, operation, and troubleshooting, using test equipment, isolating and repairing/replacing components on both weapons systems and electrical and mechanical components on the turret systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in maintenance procedures and 1 in electrical systems troubleshooting (10/88).

AR-1710-0144

M1 UNIT TURRET MECHANIC

Course Number: TRT 317.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 2 weeks (74 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to locate components, operate and troubleshoot all systems, use test equipment, and repair/replace components of the M1 tank turret.

Instruction: Conferences in safety and electronic, electrical, and mechanical fundamentals. Practical exercises in locating and identifying components, operating and troubleshooting all systems of the turret, using test equipment, isolating faults, and repairing and replacing turret.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical systems troubleshooting and 1 in maintenance procedures (10/88).

AR-1710-0145

M60A3 UNIT TURRET MAINTENANCE

Course Number: TRT 318.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 3 weeks (109 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to locate, identify, and troubleshoot all components of the tank turret, to isolate faults, and to repair/replace components on the weapon, fire control, electrical, and hydraulic systems.

Instruction: Conferences in safety, basic electrical and hydraulic system fundamentals. Practical exercises in locating, identifying, operating, troubleshooting, using test equipment, isolating faults, and repairing and replacing components.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electrical maintenance, 1 in hydraulics maintenance, and 1 in maintenance procedures (10/88).

AR-1710-0146

M113 SERIES UNIT MAINTENANCE TRAINING

Course Number: TVM 219.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 2 weeks (74 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to locate, identify, operate, and troubleshoot automotive and electrical systems, and use test equipment and wiring diagrams to isolate faults and repair/replace components.

Instruction: Conferences in safety, and basic mechanical and electrical fundamentals. Practical exercises in troubleshooting, using test equipment and wiring diagrams to isolate and repair/replace components on the diesel fuel, air, cooling, and electrical systems on the M113 personnel carrier; performing steering brake adjustment; removing and installing power plant.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in maintenance procedures (10/88).

AR-1710-0147

M2/3 BRADLEY FIGHTING VEHICLE (BFV) UNIT
MAINTENANCE TRAINING

Course Number: TVM 216.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 2-3 weeks (74-111 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform basic maintenance procedures on track vehicles using service manuals, test equipment, and special tools.

Instruction: Lectures and laboratory exercises in safety, repair parts manuals, electricity, test equipment, brake systems, special test equipment, transmission and steering linkage adjustments, electrical systems, and general maintenance procedures. Three-week course also includes cooling systems, lubricating systems, and fuel systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in heavy equipment procedures (10/88).

AR-1710-0148

M1 UNIT AUTOMOTIVE MAINTENANCE

Course Number: TVM 217.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 2 weeks (74 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to troubleshoot and diagnose vehicle malfunctions on the M1 Abrams tank, using various test, measurement, and diagnostic equipment, and special tools; identify Ohm's law, terms and symbols, wiring schematics, and types of electrical circuits; troubleshoot charging system, fuel system, starting system, transmission, and power distribution systems.

Instruction: Lecture and practical experience in basic electricity, special tools and test equipment, testing and diagnosing of components and circuits, and maintenance safety.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical systems troubleshooting (10/88).

AR-1710-0149

M109-M110, M548 UNIT MAINTENANCE TRAINING

Course Number: TVM 220.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 3 weeks (102 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to locate and identify components; troubleshoot; use test equipment to maintain critical automotive and electrical systems on the M109/M110/M548 track vehicles; use vehicle service manuals and wiring diagrams; isolate faults in the automotive systems (fuel, air, and cooling), and the electrical systems and perform subsequent repair/replacement.

Instruction: Conferences in safety and basic automotive and electrical fundamentals. Practical exercises in troubleshooting the automotive and electrical systems components; using test equipment; isolating faults; determining repair/replacement needs.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in maintenance procedures (10/88).

AR-1710-0150

CARGO SPECIALIST BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 822-88H20; 822-88H20/30.

Location: Transportation School, Ft. Eustis, VA; Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 4-8 weeks (138-203 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise and control cargo and hatch operations, loading procedures and transshipment at air, rail, motor, inland barge, and marine terminals.

Instruction: Lectures, demonstrations and performance exercises in leadership skills, cargo operations (rail), terminal and water transport, handling hazardous cargo, operation of Hagglund's crane, maintenance and property accountability, supervision and planning, and conducting and evaluating performance-oriented training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of supervision. See AR-1406-0090 for common core credit (3/94).

Related Occupations: 88H.

AR-1710-0151

SPECIAL FORCES ENGINEER SERGEANT

Course Number: 011-18C30.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 23-24 weeks (1423-1618 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to use aerial photos and maps to determine distances, routes,

and point locations; practice survival techniques; read construction plans; determine tool and material utilization; prepare a site and lay out a building; construct small bridges; understand basic concrete construction; use explosives in demolitions; and practice basic military techniques and operations.

Instruction: Lectures, demonstrations, and practical exercises in the use of maps and aerial photos; survival techniques; use of tools and equipment; reading of plans; basic construction techniques; and use of explosives.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in orienteering, 2 in basic construction techniques, and 1 in blueprint reading. See AR-1406-0090 for common core credit (1/93).

AR-1710-0152

SPECIAL OPERATIONS ENGINEER SERGEANT
RESERVE COMPONENT PHASE 4

Course Number: 011-18C30-RC.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 3 weeks (169 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to describe military and commercial explosives, their limitations and proper use; prepare plan for use of explosive; and demonstrate, through field exercise, an aerial approach and demolition of a specified target.

Instruction: Instruction includes lectures on foreign mine warfare, military and commercial explosives, care and destruction of unserviceable explosives, safety procedures, proper placement and type of explosives to obtain desired results, and extensive field exercises.

Credit Recommendation: In the vocational certificate category, 3 semester hours in explosive techniques (12/88).

AR-1710-0153

RECOVERY SPECIALIST-ASIH8/WHEEL RECOVERY
OPERATIONS (M816/936/984E1)
(Recovery Operations (Wheel))

Course Number: RCY/221W; 221W.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 2 weeks (80 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to determine correct procedures to use in recovery of disabled vehicles; state basic principles of rigging including mechanical advantage and lift capabilities; properly select cables, ropes, mechanical anchor, and blocks; operate boom, hoist, and winch from hand signals; use acetylene torch to cut through metal; recover disabled and overturned wheeled vehicles through proper operations with associated equipment.

Instruction: Conference classes and practical exercises in determining correct procedures, use of equipment, and load computations to recover vehicles. Knows how to recover, hoist, and tow wheeled vehicles; operate recovery equipment; and perform maintenance on recovery equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in recovery equipment operation (10/88).

AR-1710-0156

FIELD ARTILLERY WEAPONS MAINTENANCE

Course Number: 041-ASIU6.

Location: Field Artillery School, Ft. Sill, OK.

Length: 3 weeks (109 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform basic maintenance and perform basic tests for function on the M198 and M119 towed howitzer with primary emphasis on hydraulics and basic electrical systems.

Instruction: Lectures and performance exercises on the organizational maintenance procedures employed on the M198 and M119 towed howitzer; includes care and use of tools, shop safety, inspection, repair, and lubrication.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in heavy equipment maintenance and 1 in maintenance management (6/89).

AR-1710-0157

SELF-PROPELLED FIELD ARTILLERY TURRET
MECHANIC

Course Number: 643-45D10.

Location: Field Artillery School, Ft. Sill, OK.

Length: 8 weeks (284 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform unit maintenance on the turret system of the M992 tracked vehicle; this includes electrical, cab, hydraulics, and fire control.

Instruction: Lectures and practical exercises on general service, lubrication, inspection, removal, installation, testing, and troubleshooting of the turret system; this includes publications, tools, maintenance forms, and safety.

Credit Recommendation: In the vocational certificate category, 1 semester hour in basic mechanics, 1 in basic hydraulics, and 1 in basic electricity (6/89).

Related Occupations: 45D.

AR-1710-0158

ABRAMS/BRADLEY SUPERVISOR DIAGNOSTICS

Course Number: SD-315.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 3-4 weeks (144-160 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform system maintenance tasks and troubleshooting procedures to isolate malfunctions in the M1A1 Abrams tank and Bradley Fighting Vehicle turret and automotive systems.

Instruction: The course is divided into four tracks. In Track A (MOS's 45G, 45K, 45Z, and 913A), topics include: basic electrical fundamentals and components; repair of wiring harnesses; overview of hydraulic components and operation; turret electrical and hydraulic systems; diagnostic procedures; use of specialized test equipment and service manuals; and basic electrical troubleshooting procedures to isolate malfunctions. In Track B (MOS's 63G, 63H, 915B, 915D, and 915E), topics include: basic electrical components; repair of wiring harnesses and overview of hydraulic components

and operation; turbine engines; operation and troubleshooting procedures to determine malfunctions in the hydraulic transmission system; system functions; electrical circuits and troubleshooting; powerplant functioning and fault isolation; and specialized test equipment. In Track C (MOS's 45T and 63F), topics include: basic electrical components; repair of wiring harnesses; overview of hydraulic components and operation; turret electrical and hydraulic systems; diagnostic procedures; specialized test equipment; turbine engines; and operation and troubleshooting procedures to determine malfunctions in the hydraulic transmission system. In Track D (MOS's 45T and 63F), topics include: basic electrical fundamentals and components; repair of wiring harnesses; overview of hydraulic components and operation; use of specialized test equipment and manuals; basic electrical circuits and troubleshooting; procedures to isolate malfunctions; systems function; and power plant functioning and fault isolation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity, 2 in electrical systems troubleshooting, and 1 in mechanical systems troubleshooting for those completing Track A; in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity, 1 in hydraulic systems troubleshooting, and 1 in mechanical systems troubleshooting for those completing Track B; in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity, 1 in electrical systems troubleshooting, 1 in mechanical systems troubleshooting, and 1 in hydraulic systems troubleshooting for those completing Track C; in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity, 1 in electrical systems troubleshooting, and 1 in mechanical systems troubleshooting for those completing Track D (10/89).

AR-1710-0159

QUARTERMASTER CHEMICAL EQUIPMENT REPAIRER

Course Number: 690-63J10.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 11-13 weeks (417-449 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to troubleshoot, maintain and repair small engines, pumps, laundry/bath equipment, water purification, steam cleaning, textile, chemical, and burner equipment.

Instruction: Lectures and practical exercises in the troubleshooting, maintaining and repair of basic fuel, air, exhaust systems, test and measurement equipment, principles of basic automotive electrical and hydraulics, small engines, pumps, laundry, bath equipment, water purification, steam cleaning, textile, chemical and burner equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic automotive and 5 in mechanical maintenance (12/90).

AR-1710-0160

QUARTERMASTER/CHEMICAL EQUIPMENT REPAIRER
TRANSITION

Course Number: 690-63J30-T.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 3-4 weeks (116-117 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to troubleshoot and repair pumps, laundry equipment, portable heaters, clothing repair and water purification equipment, chemical handling equipment.

Instruction: Lectures and practical exercises in troubleshooting and repair of pumps, water heaters, air compressors, washers, dryers, heaters, sewing machines, filter units, water purification units, decontamination units, smoke generators and shelter systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in general machine maintenance (12/90).

AR-1710-0161

TRANSITION MACHINIST

Course Number: 702-45850.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 3-4 weeks (152 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify and safely use small metal working hand tools and be competent in basic use of metal lathes and milling machines.

Instruction: Lectures and demonstrations in the safe use of metal working hand tools and machine lathes and mills. Students design, plan, and construct projects in a laboratory situation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic metal working and 2 in machine tools laboratory (12/90).

AR-1710-0164

WATERCRAFT ENGINEER

Course Number: 652-88L10.

Location: Transportation School, Ft. Eustis, VA.

Length: 9-10 weeks (360-372 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform engine room maintenance and service including marine electrical systems.

Instruction: Lectures and practical exercises in marine engineering systems on a small craft, damage control, watch standing duties, engine room operation, marine electrical systems. Classroom instruction is followed by a 72-hour performance training exercise.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in marine engine room operation (10/92).

Related Occupations: 88L.

AR-1710-0165

AMMUNITION SPECIALIST RESERVE, PHASE 2

Course Number: 645-55B10-RC.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 2 weeks (75-165 hours).

Exhibit Dates: 3/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate a

rough terrain forklift, perform operator maintenance on a forklift, and perform ammunition supply point operations.

Instruction: Lectures and practical exercises in forklift operation, ammunition loading and storage, ammunition inspection, fire fighting, and melt ammunition preparation.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/92).

Related Occupations: 55B.

AR-1710-0166

CONSTRUCTION EQUIPMENT REPAIRER SUPERVISOR
BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 612-62B30.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 9-10 weeks (357 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will have the diagnostic abilities to troubleshoot faults in diesel engine hydraulic, electrical, and powertrain systems; supervise and inspect an engineer's equipment maintenance operation; and instruct lower level personnel in maintenance operations.

Instruction: Lectures, demonstrations, and practical experiences in maintenance shop operations and management. Includes troubleshooting of the above systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in advanced diesel mechanics, 2 in construction equipment troubleshooting and 2 in diesel repair shop operations. See AR-1406-0090 for common core credit (1/93).

AR-1710-0167

CONSTRUCTION EQUIPMENT REPAIRER

Course Number: 612-62B10.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 9 weeks (352 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify, maintain, and use tools necessary for heavy equipment repair; identify technical data and specifications; diagnose and service automotive electrical systems, diesel engines including air, cooling, lubrication, and fuel systems; tune diesel engines; diagnose and repair hydraulic systems, powertrains, clutches, and bearings on various types of heavy construction equipment; maintain records; and perform preventive maintenance.

Instruction: Lectures, demonstrations, and practical exercises in heavy equipment repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in heavy equipment repair, 3 in diesel equipment repair, and 1 in automotive electrical system repair (1/93).

Related Occupations: 62B.

AR-1710-0168

CRANE OPERATOR

Course Number: 713-62F10.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 7 weeks (288-289 hours).

Exhibit Dates: 4/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform basic preventive maintenance checks and operate 20-ton mechanical crane, 12-ton mechanical crane and dragline, 25-ton hydraulic crane, pilerdriver, and crane carrier.

Instruction: Lectures, demonstrations and practical exercises in maintenance, maneuverability and operation of the cranes.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (1/93).

Related Occupations: 62F.

AR-1710-0169

GENERAL CONSTRUCTION EQUIPMENT OPERATOR

Course Number: 713-62J10/713-55131.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: Army, 7 weeks (276 hours); Air Force, 4-5 weeks (152 hours).

Exhibit Dates: 8/92-Present.

Learning Outcomes: Upon completion of the course, Army students will be able to perform basic maintenance checks and services and operate dump trucks, rollers, water distributors, air compressors, and small emplacement excavators with backhoe and front bucket. Air Force students will be able to perform basic preventive maintenance checks and services and maneuver and operate forklifts, rollers, utility tractors, water distributors, dump trucks, and rotary sweepers.

Instruction: Lectures, demonstrations, and practical exercises in basic preventive maintenance and operation of the above pieces of equipment.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (1/93).

Related Occupations: 62J.

AR-1710-0170

HEAVY CONSTRUCTION EQUIPMENT OPERATOR (USAF Apprentice Construction Equipment Operator)

Course Number: 713-62E10; 713-55131-05.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: Army, 7-8 weeks (315 hours); Air Force, 4-5 weeks (164 hours).

Exhibit Dates: 3/92-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform maintenance checks and operate 5-ton semitractor trailer, dozer, scooploader, and grader. Army version also includes scraper.

Instruction: Lectures and practical exercises on the operation and operator maintenance of the above equipment.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (1/93).

Related Occupations: 62E.

AR-1710-0171

QUARRYING SPECIALIST

Course Number: 730-62G10.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 6-7 weeks (259 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to erect, operate, and perform operational maintenance on a rock crushing plant.

Instruction: Lectures and practical exercises in procedures needed to assemble a rock crushing plant; the operation of the plant; the drilling operation of the plant; the demolition operation of the plant; and the maintenance of a rock crushing plant.

Credit Recommendation: Credit is not recommended because there is no comparable course of instruction offered in postsecondary institutions (1/93).

Related Occupations: 62G.

AR-1710-0172

PLUMBER

Course Number: 720-51K10.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 7-8 weeks (288-289 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to read construction plans; cut and join steel, cast iron, copper and plastic pipes; install and test basic plumbing systems; determine proper tool and material utilization; repair valve and control devices; construct, repair, and replace pipelines and plumbing components and steel tank assemblies.

Instruction: Lectures, demonstrations and practical exercises in tool and material selection, sewer and drain system installation, water supply lines, installation of water closets and lavatories, construction of pipeline systems, and erection of steel storage tanks.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic plumbing (1/93).

Related Occupations: 51K.

AR-1710-0173

CARPENTRY/MASONRY SPECIALIST

Course Number: 712-51B10.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 7-8 weeks (288-289 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify, maintain, and use carpentry and masonry tools; identify wood and masonry material; construct woodframe floors, walls, and roofing systems including door and window openings and wall and ceiling coverings. Also includes masonry and concrete construction including layout, form construction, reinforcement, wall erection and forming, mixing, pouring, and finishing of concrete.

Instruction: Conferences and practical exercises on identification, maintenance, and use of hand and power tools, building layout of wood-frame, floor, wall, and roofing systems, interior walls and ceiling. Also includes masonry and concrete foundations, walls, formwork and reinforcement.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in general building construction, 4 semester hours in carpentry and 2 in masonry and concrete construction (1/93).

AR-1710-0174

CONCRETE AND ASPHALT EQUIPMENT OPERATOR

Course Number: 730-62H10.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 5-6 weeks (235 hours).

Exhibit Dates: 5/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to maintain and operate asphalt and concrete batching equipment and operate asphalt paving equipment.

Instruction: Lectures and laboratories on the above topics.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (1/93).

AR-1710-0175

ENGINEER TRACKED VEHICLE CREWMAN

Course Number: 030-12F10.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 8-9 weeks (373 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to inspect and perform basic maintenance on various track vehicles, including check and adjust track; lubricate and maintain air, cooling, and hydraulic systems; operate various vehicles including dozer and grader; and install and operate radio communication device; and guide vehicle movement using hand signals.

Instruction: Lectures, demonstrations and practical exercises on the above topics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in heavy equipment maintenance (1/93).

Related Occupations: 12F.

AR-1710-0176

UTILITIES OPERATION AND MAINTENANCE TECHNICIAN

Course Number: 4A-210A-RC.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: Phase 2, 2 weeks; Phase 4, 2 weeks (217 hours).

Exhibit Dates: 6/91-Present.

Learning Outcomes: Upon completion of the course, the student will be able to install, operate, and repair electrical power generation systems; use sound construction management practices; and supervise utility systems.

Instruction: Lectures and practical exercises in the installation, operation, troubleshooting, and repair of electrical power generation equipment. Construction management includes planning, preparing, and supervising both light and heavy construction.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 in electrical generator and motor repair, 2 in construction management, and 1 in construction blueprint reading (1/93).

AR-1710-0177

UTILITIES OPERATION AND MAINTENANCE TECHNICIAN

Course Number: 4A-210A.

Location: Engineer School, Ft. Leonard Wood, MO

Length: 9 weeks (325 hours)

Exhibit Dates: 1991-Present

Learning Outcomes: Upon completion of the course, the student will be able to install, operate, and repair electrical power generation systems; use sound construction management practices; and supervise utility systems.

Instruction: Lectures and practical exercises in the installation, operation, troubleshooting, and repair of electrical power generation equipment. Construction management includes planning, preparing, and supervising both light and heavy construction.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in AC/DC circuits, 1 in electrical generator and motor repair, 3 in construction management, and 3 in construction blueprint reading (1/93).

AR-1710-0178

LIGHTER AIR-CUSHION VEHICLE 30 TON
PROPULSION SYSTEM

Course Number: 062-F6

Location: Transportation School, Ft. Eustis, VA

Length: 7 weeks (258 hours)

Exhibit Dates: 7/92-Present

Learning Outcomes: Upon completion of the course, the student will be able to perform preventive maintenance, servicing, and troubleshooting on a gas turbine engine.

Instruction: Lectures and practical exercises in the servicing requirements of a gas turbine engine and related systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in gas turbine theory (3/94).

AR-1712-0002

WATERCRAFT ENGINEER PRIMARY TECHNICAL

Course Number: 652-61C20

Location: Transportation School, Ft. Eustis, VA

Length: 11 weeks (408 hours)

Exhibit Dates: 1/90-Present

Objectives: To provide enlisted personnel with technical training in diesel engine repair and maintenance for marine engineering certification.

Instruction: Lectures and practical exercises in maintenance and repair of diesel engines and associated systems, including hydraulic, electrical, drive train, and pneumatic. Practical training includes generation and maintenance of refrigeration systems, fire fighting systems, and associated shipboard equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in diesel engine operation and maintenance and 1 in electricity (5/86).

Related Occupations: 61A; 61C.

AR-1712-0016

M2/M3 BRADLEY FIGHTING VEHICLE REPAIRER

Course Number: 611-ASIM5 (63H)

Location: Ordnance Center and School, Aberdeen Proving Ground, MD

Length: 3 weeks (108 hours)

Exhibit Dates: 1/90-9/90

Objectives: To train enlisted personnel in the general maintenance and servicing of diesel engines

Instruction: Lectures, demonstrations, and practical exercises in troubleshooting, adjusting, testing, and repairing various systems and components of the diesel engine. The course includes adjusting and repairing valve trains, troubleshooting procedures, replacing and servicing transmissions, and gear boxes and adjusting fuel injectors.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in diesel engine technology (2/84)

Related Occupations: 63H

AR-1712-0018

WATERCRAFT ENGINEER BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: Version 1: 652-88L30.
Version 2: 652-88L30.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA

Length: Version 1: 14-15 weeks (471 hours). Version 2: 7 weeks (238 hours).

Exhibit Dates: Version 1: 10/91-Present.
Version 2: 1/90-9/91.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to supervise and train enlisted personnel in fire-fighting, damage control, emergency and administrative duties, pollution control and shipboard sanitation. The student will be able to operate, service, troubleshoot and repair marine hydraulic systems, marine electrical systems, diesel engines, and marine air conditioning and refrigeration systems. Version 2: Upon completion of the course, the student will be able to supervise and train enlisted personnel in fire-fighting, damage control, emergency and administrative duties, pollution control and shipboard sanitation. The student will be able to operate, service, troubleshoot and repair marine hydraulic systems, marine electrical systems, and marine air conditioning and refrigeration systems.

Instruction: Version 1: Lectures and exercises with examinations in common marine technical tasks, marine hydraulics, electrical, diesel engines, air conditioning and refrigeration. Version 2: Lectures and exercises with examinations in common marine technical tasks, marine hydraulics, electrical, air conditioning and refrigeration.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 1 semester hour in marine engineering, 1 in hydraulic maintenance and repair, 2 in marine electrical system maintenance and repair, 1 in refrigeration and air conditioning, and 3 in diesel engine maintenance and overhaul. See AR-1406-0090 for common core credit (3/94). Version 2: In the lower-division baccalaureate/associate degree category, 1 semester hour in marine engineering supervision, 1 in marine hydraulics, 1 in marine electricity, and 1 in marine air conditioning and refrigeration. See AR-1406-0090 for common core credit (3/88).

Related Occupations: 88L

AR-1712-0019

WATERCRAFT ENGINEER ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: Version 1: 652-88L40
Version 2: 652-88L40

Location: Version 1: Transportation School, Ft. Eustis, VA. Version 2: Transportation and Aviation Logistics School, Ft. Eustis, VA

Length: Version 1: 14-15 weeks (458-561 hours). Version 2: 13-14 weeks (497 hours).

Exhibit Dates: Version 1: 4/92-Present.
Version 2: 1/90-3/92

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to supervise the performance of watercraft operation; maintenance, and repair, including marine diesel engines, fuel injection systems, refrigeration and air conditioning systems, hydraulics, and electrical components; and perform nondestructive testing on welds. Version 2: Upon completion of the course, the student will be able to supervise the operation and maintenance of marine diesel engines, diesel fuel injector systems, electrical systems, marine refrigeration and air conditioning systems, air compressors and controls, pumps, gears and drive couplings, and line shafts, bearings and propellers. The student will be able to perform technical inspections of marine engine components and welds. The student will also assume shipboard duties as a marine engineer including management and administrative duties.

Instruction: Version 1: Lectures, demonstrations, and practical exercises in marine engineering, administration and management. Version 2: Lectures, demonstrations, and practical exercises in marine engineering, administration and management.

Credit Recommendation: Version 1: In the vocational certificate category, student receives the equivalent of certificates in CPR and air conditioning (freon) (3/94); in the lower-division baccalaureate/associate degree category, 3 semester hours in supervision, 2 in electrical component repair, 1 in diesel engine theory and maintenance, 1 in refrigeration and air conditioning, and 1 in hydraulic system theory and maintenance. See AR-1404-0035 for common core credit (3/94). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in marine engineering supervision, 3 in marine engineering operation, 2 in marine electrical systems, and 1 in marine diesel engines (6/91).

Related Occupations: 88L

AR-1712-0020

MARINE ENGINEERING OFFICER WARRANT OFFICER
TECHNICAL/TACTICAL CERTIFICATION
(Marine Engineering Officer Warrant Officer
Technical Certification)

Course Number: 4H-881A

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA

Length: 39 weeks (1410-1412 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to direct the operation, maintenance, repair, and overhaul of engineering machinery and equipment installed in or on Army watercraft. The student will be able to meet successfully the academic and vessel-specific requirements for the Army Marine License Annotated Chief Engineer of Class A-1 Motor Vessel and Assistant Engineer of Class A-2 Unlimited Motor Vessel. The student will be able to operate and maintain auxiliary shipboard systems, including fresh and raw water pumps and systems, oil water separator, centri-

fuges, and low-pressure boiler and heating systems. The student will be able to operate, maintain, and repair, as necessary, shipboard electrical apparatus and instruments, including AC and DC motors, generators and switchboards, batteries, refrigeration systems and controls and windlass, winch and capstan. The student will be able to operate and maintain diesel engines and associated equipment. The student will be able to perform propeller, shaft, rudder and plastic repairs and inspect, test, repair and replace marine piping systems. Finally, the student will be able to maintain, inspect, and replace rudders, propellers, propeller shafts, bearing and stuffing boxes.

Instruction: Lectures, examinations, and practical exercises on shipboard nomenclature, drills, emergencies, damage control, firefighting, drownproofing, survival, sanitation, plus customs, reports, and courtesies. Topics also include marine electricity, refrigeration, diesel engine theory, operation and maintenance, and hull, propulsion and steering maintenance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in diesel engineering, 2 in refrigeration, 2 in marine electricity, and 4 in practicum in open water vessel operation (7/92); in the upper-division baccalaureate category, 2 semester hours in field experience in management (7/92).

Related Occupations: 510A; 881A.

AR-1712-0021

MARINE ENGINEERING OFFICER A2 CERTIFICATION

Course Number: 4H-SQ12 (881A).

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 12 weeks (436-437 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the duties of a chief engineer in operating, maintaining, and repairing marine engineering systems on ships in open waters under towing, salvage, and resupply operations.

Instruction: Lectures and practical exercises in the troubleshooting and repair of high and low speed diesel engines, fuel injection systems, advanced marine electrical systems, marine auxiliary systems, and air conditioning and refrigeration systems. Course is followed by a 16-hour exam for the issuance of the Army Marine Certification as Chief Engineer of Class A Unlimited Motor Vessels Upon Oceans.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in advanced marine electrical systems, 1 in advanced diesel engine maintenance, and 2 in principles of supervision (10/92).

Related Occupations: 510A; 881A.

AR-1712-0022

ENGINEER EQUIPMENT REPAIR TECHNICIAN SENIOR
WARRANT OFFICER

Course Number: 4-5-C32-213A.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 10-11 weeks (375 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage equipment maintenance and repair facilities; and diagnose, repair and maintain power genera-

tion equipment, and diesel and gas driven equipment.

Instruction: Lectures and practical exercises on the above topics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in facility and personnel management and 3 in diesel and gas equipment repair (1/93).

AR-1712-0023

ENGINEER EQUIPMENT REPAIR TECHNICIAN SENIOR
WARRANT OFFICER RESERVE

Course Number: 4-5-C32-213A-RC (SWOT).

Location: Engineer School, Ft. Leonard Wood, MO.

Length: Phase 2, 2 weeks (87 hours); Phase 4, 2 weeks (83 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to (Phase 2) diagnose, repair and maintain power generation equipment and diesel and gas engines; (Phase 4) diagnose, repair and maintain powertrains, hydraulics, and pneumatics.

Instruction: Phase 2, conferences, discussion, and practical exercises teach students to diagnose, maintain, and repair power generation equipment and gas and diesel engines. Phase 4, conferences, discussions, and practical exercises teach students to diagnose, maintain, and repair powertrain, hydraulic and pneumatic systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, (for phase 2) 2 semester hours in diesel and gas engine repair; (for phase 4) 2 semester hours in powertrains, pneumatic and hydraulic system repair (1/93).

AR-1713-0009

TECHNICAL DRAFTING SPECIALIST

Course Number: 413-81B10.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 11-12 weeks (340-455 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform tasks in mechanical drafting, architectural drawing, structural drafting, civil engineering drafting, and technical illustrating; and will be able to perform construction estimating.

Instruction: Lectures, demonstrations, and practical exercises in the use of drafting equipment; mechanical drawing including single view, multiple view, pictorial drawings, and sketching; architectural drawing including floor plans, function plans, building section details and elevations, and electrical, plumbing, and HVAC plans; structural drafting to include wood, steel, and concrete; civil engineering drafting to include topographic maps and road plans/profiles; and technical illustrating to include charts and overlays using ink and color shading materials.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical drawing, 4 in architectural drawing, 1 in structural drafting, 1 in civil engineering drafting, 1 in technical illustrating, and 1 in construction estimating (1/93).

AR-1714-0015

1. CABLE SYSTEMS INSTALLER/MAINTAINER

2. WIRE SYSTEMS INSTALLER
(Wire System Installer/Operator)

Course Number: Version 1: 621-31L10. Version 2: 621-36C10; 621-36C10-OSUT; 621-31L10.

Location: Signal School, Ft. Gordon, GA.

Length: Version 1: 8 weeks (288 hours). Version 2: 5-18 weeks (296-653 hours).

Exhibit Dates: Version 1: 7/94–Present. Version 2: 1/90–6/94.

Learning Outcomes: Version 1: Upon completion of the course, the student will possess the knowledge and skills necessary to install and maintain field wire and cable networks and telephones. This version is pending evaluation. Version 2: Upon completion of the course, the student will possess the knowledge and skills necessary to install and maintain field wire and cable networks and telephones.

Instruction: Version 1: Lectures and practical exercises in construction, maintenance, and recovery of outside plants consisting of open wire, aerial cable, field wire, and field cable systems, and in installation of telephones, unattended repeaters, and field switchboards. Course includes fixed-cable construction: fixed-telephone installation; field cable transmission lines; and field training exercises. This version is pending evaluation. Version 2: Lectures and practical exercises in construction, maintenance, and recovery of outside plants consisting of open wire, aerial cable, field wire, and field cable systems, and in installation of telephones, unattended repeaters, and field switchboards. Course includes fixed-cable construction: fixed-telephone installation; field cable transmission lines; and field training exercises.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the vocational certificate category, 4 semester hours in telephone lineman/installer (5/90).

Related Occupations: 31L; 36C.

AR-1714-0027

SWITCHING SYSTEMS OPERATOR
(Wire Systems Operator)

Course Number: 621-36M10.

Location: Signal School, Ft. Gordon, GA.

Length: 7-9 weeks (227-295 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide personnel with the knowledge to install, maintain, and operate a tactical manual and automatic switchboard.

Instruction: Student learns proper operation procedures for a manual switchboard. Extensive practical exercises on cable interconnections and equipment set-up in the field are provided. Preventive maintenance, equipment check-out and cable fault troubleshooting procedures are also covered.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/88).

Related Occupations: 36M.

AR-1714-0028

SWITCHING SYSTEMS OPERATOR BASIC
NONCOMMISSIONED OFFICER (NCO)
(Wire Systems Operator Primary Technical)

Course Number: 621-36M20.

Location: Signal School, Ft. Gordon, GA.

Length: 5-10 weeks (205-352 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide experienced personnel with the supervisory skills to install, maintain, and operate a tactical manual and automatic switchboard.

Instruction: Student learns specific supervisory skills to direct and inspect field installation of cables and equipment set-up. Preventive maintenance, equipment check-out and cable fault troubleshooting procedures are also covered.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (2/94).

Related Occupations: 36M.

AR-1714-0029

M1 ABRAMS FUEL AND ELECTRICAL SYSTEMS REPAIRER

Course Number: 610-ASIL8 (63G).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 3 weeks (108 hours).

Exhibit Dates: 1/90–9/90.

Learning Outcomes: Upon completion of the course, the student will be able to troubleshoot the electrical system using wiring diagrams and diagnostic equipment. Also will be able to remove and replace failed electrical components, wiring connectors, and repair wiring harnesses. The student will also be able to solder and unsolder circuit boards and electronic components. Also able to troubleshoot fuel pump and fuel transfer pump.

Instruction: Course includes troubleshooting procedures; replacing or repairing electrical system parts, test drivers alert panel or drivers master panel, power distribution box, electronic control box and wire harness; use of publications, tools and test equipment; soldering, wiring diagrams; operation of solid state circuits and safety precautions; and troubleshooting of fuel pump and fuel transfer pump.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive electrical systems, 2 in basic electronics (3/87).

Related Occupations: 63G.

AR-1714-0030

FIRE CONTROL SYSTEM REPAIRER
(Electro-Optical Ordnance Repairer USMC)

Course Number: 113-45G10/670-2172.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: Army personnel, 26 weeks (936 hours); Marine Corps personnel, 25-26 weeks (910 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student is able to operate, maintain, and repair of laser infrared observation sets.

Instruction: Includes maintenance forms and publications, safety procedures, basic AC and DC electronics to include concepts of electricity, safety, voltage, current and resistance, conversion units, Ohm's law, color codes, analyze and troubleshoot series circuits, parallel and series parallel. Covers also batteries, multi-meters, introduction to oscilloscopes, magnetism, inductance, generation of AC, capacitance, resonance, transistor fundamentals (NPN-PNP), power supplies and rectifiers. Basic digital circuits are introduced, along with

binary system, Boolean algebra, diode logic, soldering practices, maintenance repairs, troubleshoot and adjust laser infrared observation set, troubleshoot and adjust xenon search light fire control system, Laser range finder, and ballistics computer.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in basic electricity and electronics and 2 in basic computer (12/90).

Related Occupations: 45G.

AR-1714-0031

AIRCRAFT ARMAMENT/MISSILE SYSTEMS REPAIRER

Course Number: 646-68J10.

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 21-23 weeks (757-814 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to maintain and troubleshoot all electrical and electronic systems of the aircraft's fire control systems and components.

Instruction: Lectures and practical experience in repairing of aircraft fire control systems and subsystems to include wing stores/ejector racks, turret systems, boresighting, and armament electrical/electronic systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in electronics, 1 in aircraft familiarization and 3 in aircraft electrical (4/92).

Related Occupations: 68J.

AR-1714-0032

AH-64 AIRCRAFT ELECTRICAL REPAIRER

Course Number: 602-ASIX1 (68F).

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 4 weeks (138 hours).

Exhibit Dates: 10/90–9/91.

Learning Outcomes: Upon completion of the course, the student will be able to operate, troubleshoot, and repair AC/DC electrical systems including airframe and engine.

Instruction: Lectures and practical exercises in repair, operation, and troubleshooting of aircraft and engine electrical systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC aircraft/engine electrical systems maintenance and repair (6/91).

Related Occupations: 68F.

AR-1714-0033

OH-58D AIRCRAFT ELECTRICAL REPAIRER

Course Number: 610-ASIW5 (68F).

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 3 weeks (94 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate, troubleshoot, and repair aircraft and engine AC/DC electrical systems.

Instruction: Lectures and practical experience in the repair, troubleshooting, and operational testing of aircraft and engine electrical systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree cate-

gory, 3 semester hours in AC/DC aircraft/engine electrical systems maintenance and repair (10/91).

Related Occupations: 68F.

AR-1714-0034

BASIC COMMUNICATIONS-ELECTRONICS
INSTALLATION
(Communications-Electronics Basic
Installer)

Course Number: Version 1: 829-F2. Version 2: 829-F2.

Location: Version 1: 504th Signal Battalion, Ft. Huachuca, AZ. Version 2: 1199th Signal Battalion, Ft. Huachuca, AZ.

Length: Version 1: 5 weeks (192 hours). Version 2: 7 weeks (280 hours).

Exhibit Dates: Version 1: 10/93–Present. Version 2: 1/91–9/93.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to install a variety of telephone, fiber-optic, and RF communications system by splicing cables, running conduit, aligning cabinets, identifying cable color and connecting to terminals. Version 2: Upon completion of the course, the student will be able to install a communications system by splicing cables, running conduit, aligning cabinets, identifying cable color and connecting to terminals.

Instruction: Version 1: Lectures and practical exercises related to installing communications systems. Version 2: Lectures and practical exercises related to installing communications systems.

Credit Recommendation: Version 1: In the vocational certificate category, 6 semester hours in telephone, fiber-optic, and RF cable installation (10/93). Version 2: In the vocational certificate category, 6 semester hours in cable installation (10/91).

AR-1714-0035

INTERIOR ELECTRICIAN

Course Number: 721-51R10.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 6 weeks (232-254 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to read construction plans; install service entrances using Romex conduit and armored cable; determine proper tool and material utilization; test basic electrical circuits; determine size and location of and install branch circuits; and determine color code and terminals for installation of switches, outlets, and light fixtures.

Instruction: Lectures and practical exercises on the above topics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electrical installation (1/93).

AR-1715-0047

SATELLITE COMMUNICATIONS (SATCOM)
TERMINAL AN/TSC-54 REPAIR

Course Number: 102-F6.

Location: Signal School, Ft. Gordon, GA; Signal School, Ft. Monmouth, NJ.

Length: 8-10 weeks (298-366 hours).

Exhibit Dates: 1/90–1/92.

Objectives: To train enlisted personnel to inspect, test, and repair the AN/TSC-54 satellite communications terminal.

Instruction: Lectures and practical exercises in satellite communications terminal inspection, testing, and repair, including system familiarization, transmitter and receiver operation and repair, and antenna system inspection and repair, with emphasis on servicing techniques.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (8/79).

Related Occupations: 26Y.

AR-1715-0053

MULTICHANNEL COMMUNICATIONS SYSTEMS

OPERATOR

(Multichannel Communications Equipment Operator)

Course Number: 202-31M10; 31M10-CELT; 202-31M20; 202-293.1; 11-R-293.1; 11-E-46.

Location: Signal School, Ft. Gordon, GA.

Length: 8-16 weeks (280-714 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train personnel to install, operate, and maintain field radio relay and carrier systems and associated equipment.

Instruction: Lectures and practical exercises in installation, operation, and maintenance of radio sets, telephone systems, telegraph systems, antennas and generators, FDM systems, and PMC sets; area communications systems equipment maintenance; electronic warfare; and field exercises.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/90).

Related Occupations: 31L; 31M.

AR-1715-0060

SPECIAL FORCES BASE COMMUNICATIONS

OPERATOR

(Special Forces Base Communications Systems)

Course Number: 101-F12.

Location: Institute for Military Assistance, Ft. Bragg, NC.

Length: 6-7 weeks (187-264 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel to install, operate, and perform preventive maintenance on Special Forces base communications systems.

Instruction: Lectures and practical exercises in the operations and components of communications systems, including radio teletypewriter and radio set components, tuning and cording, communications central equipment, and message center group components and operation. Technical training is limited to that necessary to perform preventive maintenance and to interconnect components for optimum performance. Operation and military considerations are emphasized throughout.

Credit Recommendation: In the vocational certificate category, credit in electrical laboratory on the basis of institutional evaluation (5/93).

Related Occupations: 31E; 31Z; 32A; 72B.

AR-1715-0084

HERCULES ELECTRONIC MECHANIC

(Nike Hercules Electronic Maintenance)

Course Number: 121-24U10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 8-9 weeks (316 hours).

Exhibit Dates: 1/90-6/94.

Objectives: To train warrant officers and enlisted personnel to assemble, install, maintain, calibrate, and repair Nike Hercules guided missiles, associated testing and handling equipment, and launch equipment.

Instruction: Lectures and laboratories in basic electricity; basic electronics; radio circuits; warhead familiarization, assembly, and servicing; and system malfunction analysis. Course includes a study of the fundamentals of AC/DC circuits. Also includes a study of the Hercules guided missile system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in AC/DC circuits (11/86).

Related Occupations: 221B; 221C; 22F; 24U.

AR-1715-0091

UNIT LEVEL COMMUNICATIONS MAINTAINER

(Tactical Communications Systems Operator/Mechanic)

Course Number: 101-31V10.

Location: Field Artillery School, Ft. Sill, OK.

Length: 13-14 weeks (490 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel to install, operate, and maintain radio transmitters and receivers.

Instruction: Lectures and practical exercises in radio transmitter, receiver, and antenna fundamentals; operations and maintenance of AM, FM, and single-sideband radio sets; and radio equipment security procedures. Instruction includes Ohm's law, multimeters to check circuit components and continuity, soldering skills, and considerable emphasis on hands-on training in troubleshooting techniques and maintenance procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in radio repair (6/89); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory based on institutional evaluation (6/89).

Related Occupations: 31B; 31E; 31G.

AR-1715-0120

CHAPARRAL SYSTEM MECHANIC

Course Number: 121-24N10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 13-17 weeks (478-608 hours).

Exhibit Dates: 1/90-8/93.

Objectives: After 8/93 see AR-1715-0956. To train enlisted personnel to maintain Chaparral weapon systems and associated equipment.

Instruction: Lectures and demonstrations in the organizational level maintenance of equipment assemblies and subassemblies of the Chaparral missile system.

Credit Recommendation: In the vocational certificate category, 4 semester hours in maintenance of electro-mechanical equipment (2/90).

Related Occupations: 09B; 24N.

AR-1715-0121

BALLISTIC METEOROLOGY CREWMAN, SPECIALIST CANDIDATE

(Ballistic Meteorology Crewman, Skill Development Base)

Course Number: 420-93F20-I.

Location: Field Artillery School, Ft. Sill, OK.

Length: 11-12 weeks (394-455 hours).

Exhibit Dates: 1/90-1/92.

Objectives: To train ballistic meteorology crewmen as supervisors or technicians on ballistic meteorology crews.

Instruction: Lectures and practical exercises in meteorology, meteorological equipment, maintenance procedures and tactical employment of meteorology sections, and leadership subjects.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (3/74).

Related Occupations: 93F.

AR-1715-0122

PERSHING ELECTRICAL-MECHANICAL REPAIR

(Ballistic Missile Electrical Mechanical Repair (Pershing))

Course Number: 631-46N10.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 13-18 weeks (488-639 hours).

Exhibit Dates: 1/90-9/90.

Objectives: To train enlisted personnel to inspect, test, and repair Pershing missile electrical, mechanical, and hydraulic systems and associated test and ground support equipment.

Instruction: Lectures and laboratory exercises including basic electricity concepts of work, energy, and power; DC and AC circuit theory series, parallel, series-parallel, inductive, capacitive, and LCR circuits; soldering techniques and practices; basic manual skills and missile hydraulic systems and associated test and ground support equipment.

Credit Recommendation: In the vocational certificate category, 5 semester hours in electronics repair techniques (10/87); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity/electronic fundamentals (10/87).

Related Occupations: 46N.

AR-1715-0157

MARINE RADAR OBSERVER

Course Number: 8C-F10/062-F3; 8C-F10; 062-F3; 8C-F1; 813-F1.

Location: Transportation School, Ft. Eustis, VA.

Length: 2 weeks (72-84 hours).

Exhibit Dates: 1/90-9/92.

Objectives: After 9/92 see AR-1715-0919. To provide water craft operators with a working knowledge of the fundamentals in the operation, use, interpretation, and analysis of radar.

Instruction: Training includes principles of radar, radar navigation and plotting, and troubleshooting.

Credit Recommendation: In the vocational certificate category, 1 semester hour in radar operation (3/88).

Related Occupations: 61B.

AR-1715-0169

FORWARD AREA ALERTING RADAR (FAAR)
REPAIRER
(Forward Area Alerting Radar (FAAR)
Repair)

Course Number: 104-27N10

Location: Missile and Munitions School,
Redstone Arsenal, AL

Length: 25 weeks (933-951 hours)

Exhibit Dates: 1/90-1/96

Objectives: To train enlisted personnel to perform direct and general support maintenance on specific radar systems and associated equipment

Instruction: Lectures and practical exercises in the maintenance procedures for the forward-area alert radar, including system logic; power distribution system; receiving, display, and data link systems; circuit analysis; various testing systems; the stimulus generator; and system troubleshooting. Topics also include DC/AC electricity, microwave and digital circuit fundamentals.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic equipment maintenance, 3 in basic electricity/electronics, 1 in microwave fundamentals, and 2 in fundamentals of computer circuits (10/88).

Related Occupations: 26C; 26W.

AR-1715-0178

GROUND SURVEILLANCE SYSTEMS OPERATOR
(GROUND SURVEILLANCE RADAR
CREWMAN)

Course Number: 221-17K10; 243-96R10.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 5-7 weeks (168-278 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel to operate ground surveillance radar equipment.

Instruction: Lectures, practical exercises, and demonstrations in AN/PPS-4A, AN/PPS-5A, AN/TPS-33A, and AN/TPS-25A ground surveillance radar equipment operation and maintenance procedures.

Credit Recommendation: In the vocational certificate category, 1 semester hour in logical troubleshooting techniques (6/90); in the lower-division baccalaureate/associate degree category, 1 semester hour in electromechanical maintenance and 1 in map interpretation (6/90).

Related Occupations: 17K.

AR-1715-0195

SECURE VOICE ACCESS SYSTEM REPAIR

Course Number: 160-ASIK8; 160-F37.

Location: Signal School, Ft. Gordon, GA;
Signal School, Ft. Monmouth, NJ.

Length: 11-12 weeks (424 hours).

Exhibit Dates: 1/90-11/91.

Objectives: To train dial central office repairmen to maintain the automatic dial central office and the secure voice access console (SEVAC).

Instruction: Lectures and practical exercises in automatic dial control office equipment operation, logic gating and correlation, simulator, controllers, maintenance panel operation, and troubleshooting procedures; and secure voice access console (SEVAC) basic circuits and logic functions, power distribution, maintenance

alignment, and troubleshooting procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in troubleshooting techniques (10/90).

Related Occupations: 3611

AR-1715-0199

GROUND CONTROL RADAR REPAIR

Course Number: 104-26D10

Location: Signal School, Ft. Gordon, GA

Length: 32 weeks (1200 hours)

Exhibit Dates: 1/90-Present

Objectives: To train enlisted personnel to maintain ground control approach radars and associated IFF equipment

Instruction: Includes lectures and practical experience in the general operation, malfunction analysis, and repair procedures of a ground control radar system. Course includes instruction on solid state power supplies, audio amplifiers, oscillators, pulse circuitry, standard digital logic, microwave transmitters, modulators, and receivers. This basic background knowledge is used to study, in particular, specific ground control radar sets, interrogators to identify specific aircraft, navigational beacons, and moving target circuitry. Instruction and practice in the repair of printed circuit boards is a part of this instruction.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and electricity, 4 in theory of microwave transmission, and 6 in microwave system analysis (11/81).

Related Occupations: 09B; 26D; 26W.

AR-1715-0204

NUCLEAR WEAPONS SPECIALIST

(Nuclear Weapons Maintenance Specialist)
(Nuclear Weapons Maintenance)

Course Number: 644-55G10 (ST); 644-55G10; 644-55G20.

Location: Missile and Munitions School,
Redstone Arsenal, AL.

Length: 6-13 weeks (204-512 hours).

Exhibit Dates: 1/90-1/96.

Objectives: To train enlisted personnel to assemble, disassemble, maintain, test, and inspect nuclear weapons and to cope with nuclear emergency situations.

Instruction: Lectures and practical exercises in the assembly, disassembly, maintenance, testing, and repair of nuclear weapons and techniques of coping with nuclear emergency situations, including nuclear fundamentals, principles and components of nuclear weapons, electrical systems, electrical test equipment, care and handling of nuclear weapons, common shop operations, various examining procedures, emergency team operations, effects of nuclear weapons, and emergency destruction.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (4/91).

Related Occupations: 09B; 55G.

AR-1715-0226

COMMUNICATIONS AND ELECTRONICS STAFF
OFFICER

(Communication/Electronic Staff Officer)

Course Number: 4C ASI6B, 4C 25A

Location: Field Artillery School, Ft. Sill,
OK, Artillery and Missile School, Ft. Sill, OK

Length: 9-10 weeks (281-364 hours)

Exhibit Dates: 1/90-Present

Objectives: To train signal officers to supervise and coordinate the installation, operation, and maintenance of communications systems and selected electronic equipment

Instruction: Lectures and practical exercises in the supervision of the installation, operation, and maintenance of communications systems and selected electronic equipment including instruction in AM and FM radio fundamentals and equipment, applied communications, radiotelephony, automatic data processing equipment, tactics, ground surveillance equipment, and management procedures.

Credit Recommendation: In the vocational certificate category, 1 semester hour in communications system installation (6/89); in the lower-division baccalaureate/associate degree category, 2 semester hours in communications equipment maintenance management, 1 in communications systems planning, and 1 in technical writing (6/89).

AR-1715-0250

FIELD ARTILLERY RADAR CREW MEMBER
(Field Artillery Radar Operator)
(Field Artillery Radar Crewman)

Course Number: 221-17B10; 221-17B10
(ST); 221-17B20; 6-R-156.1; 6-R-211.1; 6-E-22.

Location: Field Artillery School, Ft. Sill,
OK.

Length: 7-8 weeks (262 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel to operate and perform preventive maintenance on field artillery radar.

Instruction: Lectures and practical exercises in field artillery radar operation and preventive maintenance, including radar site evaluation; equipment emplacement, adjustment, calibration, and orientation; radar gunnery exercises; maintenance procedures; and map reading and plotting routines.

Credit Recommendation: In the vocational certificate category, 1 semester hour in map reading and 1 in radar operations (11/85).

Related Occupations: 09B; 17B.

AR-1715-0253

DIGITAL SUBSCRIBER TERMINAL EQUIPMENT
(DSTE) REPAIRER

Course Number: 150-29G10; 150-34F20.

Location: Signal School, Ft. Gordon, GA.

Length: 23-24 weeks (849-853 hours).

Exhibit Dates: 1/90-1/90.

Objectives: To train senior technicians to operate, maintain, and repair subscriber terminals of digital communications systems.

Instruction: Practical exercises in the troubleshooting and repair of digital subscriber terminal equipment.

Credit Recommendation: In the vocational certificate category, 6 semester hours in computer peripheral equipment repair (10/86).

Related Occupations: 09B; 29G; 34D; 34F.

AR-1715-0299

TOW/DAGON REPAIRER

Course Number: 121-27E10/121-27E10 (ST).

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 18-20 weeks (672-714 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train personnel as wire guided missile system repairmen.

Instruction: Lectures and practical exercises in sinusoidal AC and DC circuits, multimeter operation, transients in RLC circuits, power supplies, basic transistors, transistor amplifiers, FETs and oscillators. Digital electronics includes number systems, arithmetic, gates and flip-flops. Includes a section on precision soldering. Maintenance, troubleshooting and repair of the TOW system are covered.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in precision soldering techniques, 3 in introduction to AC/DC circuits, 1 in introduction to digital circuitry, 3 in solid state circuitry, and 3 in electronics systems maintenance (12/88).

Related Occupations: 27E.

AR-1715-0300

RADAR ENGAGEMENT SIMULATOR AN/TPQ-29

Course Number: 121-ASIG6.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 9 weeks (329 hours).

Exhibit Dates: 1/90–1/93.

Objectives: To train enlisted personnel to operate, adjust, and maintain the Hawk simulator system.

Instruction: Lectures and practical exercises in the maintenance of the Hawk simulator system. Topics include AC and DC control systems, electronic test equipment, basic computer logic, radar fundamentals, and circuit analysis. Course includes theory of operation, operational checks, alignment, and organizational maintenance of the Hawk missile simulator system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems troubleshooting and maintenance (11/88).

Related Occupations: 24E.

AR-1715-0303

SHILLELAGH REPAIRER

(Shillelagh Missile System Repair)

Course Number: 121-ASIL9.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 6 weeks (216-217 hours).

Exhibit Dates: 1/90–1/96.

Objectives: To train enlisted personnel to inspect, test, and maintain Shillelagh missile systems and associated support equipment.

Instruction: Lectures and practical exercises in Shillelagh fundamentals, control circuits, fault locator, range selector, transmitter and modulator troubleshooting and repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic equipment maintenance (4/86).

Related Occupations: 27H; 27Z.

AR-1715-0324

PERSHING OFFICER

(Pershing II Officer)

Course Number: 2F-13C; 2F-1190P.

Location: Field Artillery School, Ft. Sill, OK.

Length: 5-8 weeks (206-297 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train officers to supervise the maintenance and operation of the Pershing missile system.

Instruction: Lectures and practical exercises in the supervision of the maintenance and operation of the Pershing missile system, including communications equipment. Topics include missile assembly and disassembly, and firing section operations.

Credit Recommendation: Credit is not recommended because of the limited, technical nature of the course (2/88).

AR-1715-0382

HAWK OFFICER

(Improved Hawk Officer)

Course Number: 2F-14F (PIP 2); 2F-14D; 2F-1180C.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 6-19 weeks (304-688 hours).

Exhibit Dates: 1/90–9/91.

Objectives: After 9/91 see AR-1715-0959. To provide commissioned officers with a knowledge of the characteristics, capabilities, functions, and maintenance of a radar-controlled missile system.

Instruction: Instruction includes electronic warfare, missile system operation, and system components.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/91).

AR-1715-0397

HAWK RADAR SIGNAL SIMULATOR STATION

REPAIRER

(Improved Hawk Radar Signal Simulator Station Repairer)

Course Number: 104-ASIW2; 104-F15.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 9 weeks (221-356 hours).

Exhibit Dates: 1/90–9/90.

Objectives: To provide the student with the knowledge required for performing support maintenance functions on the electronic systems of the Hawk simulator station and associated test equipment.

Instruction: Lectures and practical exercises in the inspection, testing, and repair of electronic circuits including power distribution circuits, target simulation circuits, oscillators, radar trigger and video synchronizers and pulse signal generation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic equipment repair (2/89).

Related Occupations: 24H.

AR-1715-0434

COMBAT SIGNALER

(Tactical Wire Operations Specialist)

Course Number: 621-31K10; 621-36K10-OSUT.

Location: Signal School, Ft. Gordon, GA.

Length: 8-12 weeks (254-496 hours).

Exhibit Dates: 1/90–12/92.

Objectives: Provide enlisted personnel with a general working knowledge of installation and maintenance of field wave lines, tactical switchboards, and radio systems.

Instruction: Course includes installation, maintenance and operation of field wire switchboards and telephones. Student installs and repairs line systems in the field. Some military personnel will complete basic training through One Station Unit Training (OSUT).

Credit Recommendation: In the vocational certificate category, 4 semester hours in line-man-installer and 2 in switchboard operator (10/89).

Related Occupations: 31K; 36K.

AR-1715-0438

SATELLITE COMMUNICATIONS (SATCOM)

OPERATOR, NAVY

Course Number: 102-F43 (26Y)/102-F43.

Location: Signal School, Ft. Gordon, GA.

Length: 8-11 weeks (320-370 hours).

Exhibit Dates: 1/90–Present.

Objectives: Provides personnel with skills required to operate a satellite communications terminal and a digital communications subsystem.

Instruction: Principles of satellite communications including digital communications and terminal subsystems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in satellite communications operation (2/94).

Related Occupations: 26Y.

AR-1715-0486

PERSHING II MISSILE CREWMEMBER

(Pershing Missile Crewmember)

Course Number: 043-15E10; 15E10-OSUT.

Location: Field Artillery School, Ft. Sill, OK.

Length: 5-14 weeks (186-223 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide the student with the skills, knowledge, and experience required to perform the duties of a Pershing missile crewmember.

Instruction: The student is instructed in the procedures required to set up a Pershing missile system and perform daily maintenance procedures. These tasks include assembling the missile sections and mounting it to the launcher, operating the power generator and laying cables. May include 8 weeks of basic training.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/89).

Related Occupations: 15E.

AR-1715-0488

PERSHING SYSTEM MAINTENANCE

Course Number: 4F-214EB; 121-21G20.

Location: Field Artillery School, Ft. Sill, OK.

Length: 7 weeks (255 hours).

Exhibit Dates: 1/90–1/92.

Objectives: To train advanced students in the troubleshooting and effective repair techniques of both the manual and electrical components of the Pershing missile ground support equipment.

Instruction: Students are instructed in procedures for tracing AC and DC voltage levels

and system signals to isolate faults and perform repair of electrical subsystems. Approximately 25 percent of the course is devoted to working knowledge of electronic devices and circuitry, including DC waves and parallel circuits, AC and DC motor functional characteristics, solid state diode applications, transistor biasing and functional operation, and octal number conversions.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electric and electronic circuits (1/80); in the lower-division baccalaureate/associate degree category, 2 semester hours as a technical elective for students in a non-technical program (1/80).

Related Occupations: 21G.

AR-1715-0492

TACTICAL COMMUNICATIONS CHIEF BASIC
NONCOMMISSIONED OFFICER (NCO)
(Tactical Communications Chief Basic Technical)
(Tactical Communications Chief)

Course Number: 101-31V30; 103-31G30.

Location: Field Artillery School, Ft. Sill, OK.

Length: 9-11 weeks (331-371 hours).

Exhibit Dates: 1/90-9/91.

Objectives: After 9/91 see AR-1715-0915. To provide selected enlisted personnel with a working knowledge of those duties required to perform as tactical communication systems operator/mechanics.

Instruction: Instruction includes subjects of wire communications, FM and AM radio systems, communications procedures, electronic warfare and very basic overview of radio fundamentals. Most instruction centers around planning of field exercises.

Credit Recommendation: In the vocational certificate category, 2 semester hours in basic electronics (5/88); in the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (5/88).

Related Occupations: 31G; 31V.

AR-1715-0493

FIELD ARTILLERY MOVING TARGET LOCATING
RADAR/SENSOR OPERATOR
(Field Artillery (AN/TPS-58B) Radar Operator)

Course Number: 221-AS1L3; 221-F6.

Location: Field Artillery School, Ft. Sill, OK.

Length: 2-4 weeks (80-133 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel to operate and maintain field artillery radar.

Instruction: Self-paced instruction and practical exercises in field artillery radar operation and preventative maintenance including radar site evaluation, equipment emplacement, adjustment, calibration and orientation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in radar operations (6/89).

AR-1715-0498

OV/RV-1D (MOHAWK) SYSTEMS QUALIFICATION

Course Number: 2C-15C/2B-ASIF1; 3A-F42.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 7-8 weeks (216-268 hours).

Exhibit Dates: 1/90-5/91

Objectives: After 5/91 see AR-1715-0912. To familiarize selected commissioned officers and warrant officers with all special electronic mission aircraft and to train rated aviation officers in two specific military aircraft (OV/RV-1D).

Instruction: Instruction in the use of special airborne electronic equipment used in military intelligence, and flight operational procedures related to the aircraft. Instruction is provided in the classroom and in flight.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/90).

AR-1715-0499

IMPROVED HAWK INFORMATION AND
COORDINATION CENTRAL MAINTENANCE
TRANSITION (PIP)

Course Number: 104-24G1T/2T/4T; 104-24G1T/2T/3T/4T.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 4-5 weeks (149-159 hours).

Exhibit Dates: 1/90-8/91.

Objectives: To provide personnel with knowledge of organizational maintenance for the Product Improvement Program (PIP) of the Improved Continuous Wave Acquisition Radar.

Instruction: Provides lecture and laboratory instruction in theory of operation of equipment, use of test equipment and procedures, troubleshooting at the block diagram level.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics laboratory (11/88).

Related Occupations: 24G.

AR-1715-0500

AERIAL ELECTRONIC WARNING/DEFENSE
EQUIPMENT REPAIRER

Course Number: 4C-F18; 102-ASIW6 (35K).

Location: Signal School, Ft. Gordon, GA; Intelligence School, Ft. Huachuca, AZ.

Length: 2-5 weeks (91-144 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train personnel and expand functional knowledge in the maintenance of aircraft survivability equipment for military aircraft at the organizational or aviation unit maintenance level.

Instruction: Teaches the necessary skills, knowledge, and maintenance procedures to maintain infrared jammers and radar warning receivers at the block diagram level.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (7/92).

AR-1715-0501

OPERATION OF THE AUTOMATED MULTIMEDIA
EXCHANGE (AMME) SYSTEM

Course Number: 260-ASIU3.

Location: Communications Electronics Installation, Ft. Huachuca, AZ.

Length: 2-6 weeks (80-200 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide specialized operator training on the Automated Multimedia Exchange (AMME) system.

Instruction: This program includes lectures and practical exercises in the general operation

of the Automatic Multimedia Exchange system. The course includes traffic flow, system configuration, equipment identification and operation, system initialization, message entry and traffic management.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (6/90).

AR-1715-0511

HAWK MISSILE CREW MEMBER

Course Number: 16D10-OSUT; 043-16D10; 16D10-OSUT (Phase 1); 043-16D10-OSUT.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 5-8 weeks (206-276 hours).

Exhibit Dates: 1/90-1/93.

Objectives: To train enlisted personnel as Hawk Missile crew members.

Instruction: Lectures and practical exercises in the procedures and practices used in operating specific Hawk missile systems and equipment.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/91).

Related Occupations: 16D.

AR-1715-0521

IMPROVED HAWK MASTER MECHANIC

Course Number: 121-24R50-B.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 30-31 weeks (1064-1084 hours).

Exhibit Dates: 1/90-12/91.

Objectives: To train experienced enlisted personnel to perform operational and organizational checks and maintenance on the Improved Hawk Missile System.

Instruction: Lectures and practical exercises in digital logic and computer fundamentals, including logic gates, computer flow charts, computer maintenance, operational checks and fault isolation involving power distribution systems, computer control systems, continuous wave radar sets, pulsed wave radar sets, range only radar sets, and other equipment relating to the Hawk missile support system.

Credit Recommendation: In the vocational certificate category, 10 semester hours in electronic equipment maintenance (11/84); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic troubleshooting and maintenance and 3 in radar systems maintenance and operations (11/84).

AR-1715-0529

CHAPARRAL REDEYE REPAIRER

Course Number: 121-27G10.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 28 weeks (1024-1026 hours).

Exhibit Dates: 1/90-1/96.

Objectives: To provide enlisted personnel with the skills and knowledge required to perform DS/GS level maintenance of the Chaparral and Redeye Guided Missile Systems and ancillary test equipment.

Instruction: Lectures and practical experiences in basic electricity, AC/DC circuits, transistors, linear and nonlinear devices, power supplies, amplifiers, sinusoidal and nonsinusoidal oscillators, logic circuits, and computer fun-

damentals. Practical experiences in the troubleshooting and repair of Chaparral and Redeye systems. Includes precision soldering.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to AC/DC circuits, 2 in precision soldering, 1 in introduction to digital circuitry and 3 in solid state circuits (10/88).

AR-1715-0530

BALLISTIC/LAND COMBAT MISSILE AND LIGHT AIR
DEFENSE WEAPONS SYSTEMS
MAINTENANCE NONCOMMISSIONED
OFFICER (NCO) ADVANCED

Course Number: 1-27-C42A.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 8-20 weeks (279-713 hours).

Exhibit Dates: 1/90-4/90.

Objectives: To provide enlisted personnel selected by DA with career development training in general military and specialty related subjects, and to enhance professional development through expanded training in logistics management.

Instruction: Course includes specific tracks in certified soldering, missile materiel management, Pershing electronics and ground support equipment, and general support and handling equipment for the LCSS Lance, TOW Dragon, Vulcan, Chaparral Redeye, Shillelagh and FAAR systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics systems maintenance (4/86).

AR-1715-0549

MEDIUM CAPACITY MULTICHANNEL
COMMUNICATION SYSTEMS
(Medium Capacity Multichannel Communication Systems Team Chief)

Course Number: SIG 2.

Location: Combined Arms Training Center, Flint Kaserne, Bad Toelz, Germany.

Length: 2 weeks (74 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide students with the skills and knowledge necessary to supervise operators of a specific army radio communications system.

Instruction: Instruction in installing, operating, aligning, and performing preventive maintenance on the components of radio communications systems, including radio receivers, radio transmitters, and antennas.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/82).

Related Occupations: 25A; 25D; 31M; 31Z.

AR-1715-0554

FM RADIO ALIGNMENT
(Radio and Repair Alignment)

Course Number: SIG 35.

Location: Combined Arms Training Center, Flint Kaserne, Bad Toelz, Germany.

Length: 2 weeks (67-73 hours).

Exhibit Dates: 1/90-Present.

Objectives: Provides radio repair personnel with the skills and knowledge required to align FM radio sets.

Instruction: Topics include the use of test equipment used to align FM radios, block diagrams of the radios, technical characteristics of the radios, and alignment procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in FM radio alignment (10/82); in the lower-division baccalaureate/associate degree category, 1 semester hour in communications equipment alignment (10/82).

Related Occupations: 31E.

AR-1715-0555

AN/UGC-74 TELETYPEWRITER GENERAL SUPPORT
MAINTENANCE

Course Number: UGC-1.

Location: Combined Arms Training Center, Flint Kaserne, Bad Toelz, Germany.

Length: 2 weeks (119 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide teletypewriter maintenance personnel with the skills and knowledge necessary to troubleshoot and repair teletype communications terminal equipment.

Instruction: Topics include installing, operating, and performing maintenance of teletypewriter systems; maintenance procedures include module replacement, disassembly and reassembly, testing and fault isolation, alignment procedures, and the sending and receiving of test messages between two terminals.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/82).

Related Occupations: 31J.

AR-1715-0556

AN/UGC-74 TELETYPEWRITER DIRECT SUPPORT
MAINTENANCE

Course Number: UGC-2.

Location: Combined Arms Training Center, Flint Kaserne, Bad Toelz, Germany.

Length: 2 weeks (80 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide teletypewriter maintenance personnel with the skills and knowledge necessary to troubleshoot and repair teletype communications terminal equipment AN/UGC-74(V)3.

Instruction: Topics include installing, operating, and performing maintenance of UGC-1 teletypewriter systems; maintenance procedures include module replacement, disassembly and reassembly, testing and fault isolation, alignment procedures, and the sending and receiving of test messages between two AN/UGC-74(V)3 terminals.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/82).

Related Occupations: 31J.

AR-1715-0557

AN/MYQ

Course Number: ADP-15.

Location: Combined Arms Training Center, Zweibruecken, Germany.

Length: 3 weeks.

Exhibit Dates: 1/90-Present.

Objectives: To train personnel to operate and perform routine operator maintenance on a minicomputer system.

Instruction: Lectures, videotapes, and hands-on experience in operation and routine

operator maintenance of the AN/MYQ-4 computer system; topics include printers, tape drives, card readers, disk drives, video terminals, system power-up, operation control panel, peripheral equipment, error recovery, performance examination, and save and restore procedures.

Credit Recommendation: In the vocational certificate category, 4 semester hours in minicomputer system operations (10/82); in the lower-division baccalaureate/associate degree category, 1 semester hour in survey of computer hardware (10/82).

AR-1715-0558

TARGET ACQUISITION RADAR TECHNICIAN-
WARRANT OFFICER TECHNICAL
CERTIFICATION

(Target Acquisition Radar Technician)

Course Number: 4C-211A.

Location: Field Artillery School, Ft. Sill, OK.

Length: 27 weeks (1061 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide radar warrant officers with tactical and technical skills to locate, function, and repair radar sets.

Instruction: Instruction includes theory of radar operations, weapons location, radar set operation, electronic circuits, radar maintenance and repair, and electronic systems diagnosis and repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity and electronics, 3 in electronic devices, 3 in digital circuit theory, 3 in digital computer fundamentals, 3 in radar theory, and 3 in system maintenance and troubleshooting (11/85).

Related Occupations: 211A.

AR-1715-0562

LANCE SYSTEM REPAIRER
(Lance Repairer)

Course Number: 121-27L10.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 16-18 weeks (622 hours).

Exhibit Dates: 1/90-1/96.

Objectives: To train enlisted personnel to perform direct and general support maintenance on the Lance Missile Systems (less carrier and warhead) and on associated test equipment.

Instruction: Lectures and practical experience in basic electricity, DC/AC circuits, series/parallel circuits, linear and nonlinear devices, transistors, amplifiers, power supplies, use of test equipment including multimeters, oscilloscopes, and function generators. Included are practical experiences in testing, troubleshooting, and repairing of electronic subsystems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity/electronics, 1 in electronic shop practices, and 3 in electronic equipment repair (10/88).

Related Occupations: 27L.

AR-1715-0564

MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)
REPAIRER

Course Number: 121-27M10.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 18-19 weeks (682-684 hours)

Exhibit Dates: 1/90-Present

Objectives: To train enlisted personnel to perform direct and general support maintenance on the multiple launch rocket system

Instruction: Lectures and practical exercises in basic electricity, circuits, devices, test equipment and maintenance practices; and extensive training in analysis of circuit diagrams, schematics and electronics equipment using multimeters, oscilloscopes, and function generators. Topics include series resonance, parallel resonance, power supplies, transistor amplifiers, relays, and switches

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity/electronics, 1 in electronic shop practices, and 3 semester in electronic equipment maintenance (2/88).

Related Occupations: 27M.

AR-1715-0565

EQUIPMENT OPERATION/MAINTENANCE TEST SET
GUIDED MISSILE SET (TOW GROUND)
(TOW Field Test Set Repairer)

Course Number: 121-ASIJ9; 121-F28.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: Self-paced, 3-4 weeks (114-128 hours).

Exhibit Dates: 1/90-1/96.

Objectives: To provide students with the skills and knowledge required to operate, troubleshoot, and repair the TOW field test set.

Instruction: A self-paced course in the theory and operation of the TOW field test set and ancillary equipment. Tools, test equipment and service manuals used in the repair of power supplies and controller are also incorporated in this course.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronic laboratory and 2 in electronic equipment maintenance (11/83).

Related Occupations: 27E.

AR-1715-0566

FIELD ARTILLERY COMPUTER REPAIRER
(Field Artillery Digital Automatic Computer Radar Technician)

Course Number: 041-34Y10 (Phase 1); 104-2885.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 9-18 weeks (330-623 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel to perform basic electronics maintenance and direct general support maintenance of field artillery digital automatic and related test equipment.

Instruction: The course provides instruction to enlisted Army personnel in basic electronics; AC/DC including safety; fundamentals of electricity, color code, circuits series, parallel, series parallel, batteries, multimeters; introduction to oscilloscopes, magnetism, inductance, generation AC, capacitance, resonance, transistor fundamentals, transistors (NPN-PNP), power supplies and rectifiers; basic digital circuits including binary system, Boolean algebra, diode logic, logic trainer; precision soldering practices including wire stripping, soldering

various types of connections, removing and replacing defective circuit components. Army and Marine personnel are instructed in the maintenance of signal data reproducers including inspection, troubleshoot, and repair/replacement of frame-mounted components-main power circuit breakers, align reader/close control test set, computer logic unit; also includes test, troubleshoot, repair of computer gun direction, computer operational inspection, test and repair power circuits, replacement of memory unit, and reliability test.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, for Army personnel, 5 semester hours in basic electricity, 3 in basic electronics, and 2 in basic computers; for Marine Corps personnel, 2 semester hours in basic computers (2/84).

Related Occupations: 34Y

AR-1715-0568

RC-12D IMPROVED GUARDRAIL SYSTEMS
QUALIFICATION (RC-12D IMPROVED
GUARDRAIL V) SYSTEMS QUALIFICATION

Course Number: 2C-15C/2B-ASIF3; 3A-F45.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 4-9 weeks (200-321 hours).

Exhibit Dates: 1/90-5/91.

Objectives: After 5/91 see AR-1715-0913. To familiarize selected commissioned and warrant officers with all special electronic mission aircraft and to train rated aviation officers in a specific military reconnaissance airplane (RC-12D).

Instruction: Instruction in the use of special airborne electronic equipment used in military intelligence, and flight operational procedures related to the aircraft. Instruction is provided in the classroom and in flight.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/90).

AR-1715-0569

GUARDRAIL V SYSTEM QUALIFICATION (RU-21
(GUARDRAIL V) (2R)) (RU-21
(GUARDRAIL) SYSTEMS QUALIFICATION)

Course Number: 2C-15C/2B-ASIF2; 2B-AS12K; 3A-F43.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 5-7 weeks (200-243 hours).

Exhibit Dates: 1/90-Present.

Objectives: To familiarize selected commissioned and warrant officers with all special electronic mission aircraft and to train rated aviation officers in a specific reconnaissance airplane (RU-21H).

Instruction: Instruction in the use of special airborne electronic equipment used in military intelligence, and flight operational procedures related to the aircraft. Instruction is provided in the classroom and in flight.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/90).

AR-1715-0574

IMPROVED HAWK ORGANIZATIONAL MAINTENANCE
SUPERVISOR/MASTER MECHANIC (PIP 2)
TRANSITION

Course Number: 4F-F15/121-24R50-T.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 6-8 weeks (219-263 hours).

Exhibit Dates: 1/90-12/91

Objectives: To provide warrant officers and senior enlisted personnel with the knowledge of organizational maintenance procedures utilized in the product improvement program (PIP).

Instruction: Course utilizes conferences and practical exercises to provide instruction in the maintenance of the HPI/AM transmitters, receiver signal processor, and maintenance of the TAS Improved Hawk Missile System at the management level. Training is superficial in the area of circuitry.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/88).

Related Occupations: 24R.

AR-1715-0576

STINGER GUNNER OPERATOR (USMC)
(Redeye and Stinger Gunner/Operator)

Course Number: 121-7212.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 6 weeks (188-189 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide training in the operation and employment of the Redeye and Stinger missile system in the Fleet Marine Forces.

Instruction: Instruction in the organization of Stinger/Redeye platoons, aircraft identification, principles of operation of missile systems, operating procedures, employment of the system, communications procedures, and mapping procedures.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/89).

AR-1715-0578

PATRIOT MISSILE CREW MEMBER

Course Number: 16T10-OSUT.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 18-20 weeks (732-890 hours).

Exhibit Dates: 1/90-6/94.

Objectives: To train enlisted personnel to perform duties of a crew member on the Patriot missile system.

Instruction: Instruction in march order and emplacement of all Patriot missile system related equipment, survey functions, missile reload procedures, preventive maintenance procedures, launcher tests, logistics functions, communication procedures, and vehicle operations.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electromechanical maintenance procedures (11/85).

AR-1715-0579

PATRIOT MISSILE CREW MEMBER
(Patriot Missile Crew Member Transition)

Course Number: 043-16T10; 043-16T1/2/3/4-T.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 11-13 weeks (377-470 hours).

Exhibit Dates: 1/90-7/93.

Objectives: After 7/93 see AR-1715-0941. To train enlisted personnel to perform the duties of a crew member on the Patriot missile system.

Instruction: Instruction in march order and emplacement of all Patriot missile system related equipment, survey functions, missile reload procedures, preventive maintenance procedures, launcher tests, logistic functions, communications procedures, and vehicle operations.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electro-mechanical maintenance procedures (4/91).

AR-1715-0580

PATRIOT MISSILE CREW MEMBER

Course Number: Phase 1, 16T10-OSUT (24T); Phase 1, 16T10-OSUT.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 14-15 weeks (548 hours).

Exhibit Dates: 1/90-6/94.

Objectives: To train entry personnel to perform duties of a crew member on the Patriot missile system.

Instruction: Instruction in march order and emplacement of all Patriot missile system related equipment, survey functions, missile reload procedures, preventive maintenance procedures, communication procedures, and light and heavy vehicle operation.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electro-mechanical maintenance procedures (11/86).

AR-1715-0581

PATRIOT MISSILE CREW MEMBER TRANSITION

Course Number: 043-16T10 (24T) (Phase 1); 043-16T12/3/4-T (24T) (Phase 1).

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 7-8 weeks (286 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel to perform the duties of a crew member on the Patriot missile system.

Instruction: Instruction in march order and emplacement of all Patriot missile system related equipment, survey functions, missile reload procedures, preventive maintenance procedures, launcher tests, logistic functions, and communication procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electro-mechanical maintenance procedures (12/84).

AR-1715-0582

PATRIOT OPERATOR AND SYSTEM MECHANIC

Course Number: 632-24T10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 32-34 weeks (1150-1220 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will know and be able to apply the tasks required to employ, maintain, and repair the Patriot missile system.

Instruction: Lectures and practical exercises in the operation, repair, and maintenance management of the Patriot missile system; repair procedures on operation; checks and adjustments; and fault isolation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems, 2 in AC/DC circuits, 2 in solid state electronics, and

3 in electronic systems troubleshooting and maintenance (6/95).

Related Occupations: 24T.

AR-1715-0585

FORWARD AREA ALERTING RADAR (FAAR) ORGANIZATIONAL MAINTENANCE

Course Number: 121-ASIX7.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 5-7 weeks (193-226 hours).

Exhibit Dates: 1/90-12/90.

Objectives: To provide personnel with the knowledge and skills needed to perform organizational maintenance on the radar and associated equipment.

Instruction: This course, presented through lecture and laboratory training, teaches the students to energize radar, to troubleshoot all radar components, and to repair radar components.

Credit Recommendation: In the vocational certificate category, 3 semester hours in radar systems repairs and maintenance (9/89); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic troubleshooting and repair (9/89).

AR-1715-0594

COMSEC EQUIPMENT TSEC/KG-81 REPAIR

Course Number: 160-F20.

Location: Signal School, Ft. Gordon, GA.

Length: 6-8 weeks (246-280 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide enlisted personnel with the skills and knowledge to repair one specific piece of military electronics equipment.

Instruction: Student practices disassembly, reassembly, testing and troubleshooting of a particular piece of communications security equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in systems maintenance (5/90).

AR-1715-0596

DS/GS TEST AND REPAIR STATION MAINTENANCE (AH-64A)

Course Number: 198-ASIX1.

Location: Signal School, Ft. Gordon, GA.

Length: 6-8 weeks (216-288 hours).

Exhibit Dates: 1/90-2/90.

Objectives: After 2/90 see AR-1715-0878. To provide enlisted personnel with skills necessary to perform maintenance and repair on a specific piece of military electronic equipment.

Instruction: Lectures and practicum in troubleshooting the AH-64A using the programmed diagnostic procedure for fault isolation and in making appropriate repairs on all components of the system, such as test console, interface, video, pneumatic, and power subsystems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in diagnostic procedures (6/89).

AR-1715-0598

ELECTRONIC SWITCHING SYSTEMS TECHNICAL MANAGER

Course Number: Version 1: 4C-F39, Version 2: 4C-F39; 4C-ASI3T; 4C-F20.

Location: Signal School, Ft. Gordon, GA.

Length: Version 1: 11 weeks (396 hours). Version 2: 7-9 weeks (275-324 hours).

Exhibit Dates: Version 1: 10/94-Present. Version 2: 1/90-9/94.

Learning Outcomes: Version 1: Upon completion of the course, the student will be familiar with the procedures used to maintain an automatic telephone central office and automatic message switching control. This version is pending evaluation. Version 2: Upon completion of the course, students will be familiar with the procedures used to maintain an automatic telephone central office and automatic message switching control.

Instruction: Version 1: A general familiarization of certain telephone central office equipment and technical documentation and procedures to maintain this equipment are presented to provide a supervisor with sufficient knowledge to prepare, initiate, and direct support maintenance. This version is pending evaluation. Version 2: A general familiarization of certain telephone central office equipment and technical documentation and procedures to maintain this equipment are presented to provide a supervisor with sufficient knowledge to prepare, initiate, and direct support maintenance.

Credit Recommendation: Version 1: Pending evaluation. Version 2: Credit is not recommended because of the limited, specialized nature of the course (6/90).

Related Occupations: 290A.

AR-1715-0605

JOINT TACTICAL AUTOMATED SWITCHING NETWORK SUPERVISOR (Joint Tactical Communications (TRI-TAC) Operations)

Course Number: 260-ASIX7.

Location: Signal School, Ft. Gordon, GA.

Length: 6-9 weeks (244-324 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel to plan and supervise the installation and operation of joint tactical communications equipment.

Instruction: Lectures and practical exercises in preparing the diagrams for the installation and initialization of joint tactical communications equipment.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (6/90).

AR-1715-0606

1. MULTICHANNEL TRANSMISSION SYSTEMS
OPERATOR/MAINTAINER BASIC
NONCOMMISSIONED OFFICER (NCO)
2. MULTICHANNEL COMMUNICATIONS SYSTEMS
OPERATOR BASIC NONCOMMISSIONED
OFFICER (NCO)
(Multichannel Communications Equipment
Operator Basic Noncommissioned
Officer (NCO))

Course Number: Version 1: 202-31R20. Version 2: 202-31M20.

Location: Signal School, Ft. Gordon, GA.

Length: Version 1: 12 weeks (456 hours). Version 2: 5-7 weeks (191-234 hours).

Exhibit Dates: Version 1: 10/94-Present. Version 2: 1/90-9/94.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to supervise, direct operation, and check maintenance.

nance of multichannel communication equipment. *Version 2:* Upon completion of the course, the student will be able to supervise, direct operation, and check maintenance of multichannel communication equipment.

Instruction: *Version 1:* Training includes supervision of installation, operation, and operator's organizational maintenance of low and medium capacity multichannel communications equipment. *Version 2:* Training includes supervision of installation, operation, and operator's organizational maintenance of low and medium capacity multichannel communications equipment.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* Credit is recommended for the common core only. See AR-1406-0090 (5/88).

Related Occupations: 31M; 31R

AR-1715-0607

SATELLITE COMMUNICATIONS (SATCOM)
TERMINAL OPERATOR/MAINTAINER
(Satellite Communications (SATCOM) Terminal AN/MS-64 General Support Maintenance)

Course Number: 101-ASIV9 (29E); 101-ASIV9.

Location: Signal School, Ft. Gordon, GA.

Length: 2-7 weeks (101-244 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel to perform ground support maintenance on a satellite communications terminal and associated equipment.

Instruction: Lectures and practical exercises on maintenance procedures of the satellite communications terminal AN/MS-64 and various receivers and digital modems.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (7/89).

Related Occupations: 29E.

AR-1715-0608

SATELLITE COMMUNICATIONS (SATCOM)
TERMINAL OPERATOR/MAINTAINER

Course Number: 201-ASIV9 (31C); 201-ASIV9 (05C).

Location: Signal School, Ft. Gordon, GA.

Length: 4-11 weeks (160-394 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel to install, operate, and perform organizational maintenance on a satellite terminal.

Instruction: Lectures and practical exercises in the installation, operation and maintenance of a satellite communications terminal; installation of equipment as a system; and installation/deinstallation of components of the system to include the satellite tracking antenna.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (7/89).

Related Occupations: 05C; 31C.

AR-1715-0614

STANDARDIZED COMSEC CUSTODIAN

Course Number: SIG 34; 4C-F22/160-F23.

Location: Training Center, Ft. Devens, MA; Training Center, Bad Toelz, Germany; Training Center, Yongsan, Korea; Training Center, Ft. Hood, TX; Training Center, Ft. Richardson, AK; Training Center, WESTCOM, HI; Training

Center, Little Rock, AR; Training Centers Europe, Signal School, Ft. Gordon, GA.

Length: 2 weeks (12-15 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide enlisted and commissioned personnel who are COMSEC custodians with the proper COMSEC accounting procedures.

Instruction: Instruction in security measures, handling COMSEC accounts, emergency and maintenance procedures and logistics for COMSEC.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/88).

AR-1715-0617

TRI-TAC COMSEC EQUIPMENT LIMITED
MAINTENANCE (DIRECT SUPPORT)

Course Number: 160-F21.

Location: Signal School, Ft. Gordon, GA.

Length: 7 weeks (254 hours).

Exhibit Dates: 1/90-12/92.

Objectives: To train students to repair equipment by substitution of pluggable assemblies.

Instruction: Students receive practice in the troubleshooting of several pieces of military electronic equipment.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (5/90).

AR-1715-0618

WIRE SYSTEMS INSTALLER BASIC
NONCOMMISSIONED OFFICER (NCO)
(Wire Systems Installer Primary Technical)

Course Number: 621-31L20; 621-36C20.

Location: Signal School, Ft. Gordon, GA.

Length: 4-7 weeks (149-221 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide personnel with the knowledge to lead a wire team in the installation, maintenance, and recovery of wire and cable systems.

Instruction: Practical exercises in determining material needs, personnel requirements, and work schedules to install, replace, and recover telephone cable networks. Includes field exercises and inspection procedures to check proper installation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in telephone line field installation supervision (6/88); in the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (6/88).

Related Occupations: 36C.

AR-1715-0619

BIOMEDICAL EQUIPMENT MAINTENANCE
ORIENTATION

Course Number: 4B-F20.

Location: Equipment and Optical School, Aurora, CO.

Length: 16 weeks (646 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train commissioned officers in electronic theory skills and to provide orientation in practical skills essential for calibration, repair, and maintenance of biomedical equipment.

Instruction: A study of AC and DC circuits including series and parallel circuits, inductive and capacitive reactance, resonance, and time

constants. Also includes transistor theory and circuitry. Additionally a study of digital electronics, computer theory and microprocessors, and a study of the circuitry of several types of biomedical equipment is provided.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuit theory, 3 in semiconductor devices and circuits, 3 in introduction to microprocessors, and 3 in biomedical equipment repair (9/85).

AR-1715-0620

MICROPROCESSORS

Course Number: 4B-F7/198-F7; 198-F7.

Location: Equipment and Optical School, Aurora, CO.

Length: 3 weeks (120 hours).

Exhibit Dates: 1/90-8/95.

Learning Outcomes: Upon completion of the course, the student will be able to perform calibration, analysis, and diagnosis of minor malfunctions on certain microprocessors and microprocessor-based medical equipment.

Instruction: Topics include basic and advanced digital computer architecture, MMD-1 systems and block diagram descriptions of the digital computer and 8080A microprocessors and its instruction set. The course also includes interfacing, I/O techniques and flags and interrupts.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to microprocessors (9/85).

AR-1715-0621

ADVANCED DIGITAL THEORY

Course Number: 4B-F4/198-F4; 198-F4.

Location: Equipment and Optical School, Aurora, CO.

Length: 1 week (40 hours).

Exhibit Dates: 1/90-1/93.

Objectives: To provide warrant officers and enlisted personnel with a familiarization of digital circuit operations required for microprocessor-based medical equipment.

Instruction: This course familiarizes personnel with the subjects of binary numbers, logic gates, arithmetic circuits, flip-flops, registers and memories.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in introduction to digital concepts (9/85).

AR-1715-0622

CLOSED CIRCUIT TELEVISION

Course Number: 4B-F8/198-F8; 198-F8.

Location: Equipment and Optical School, Aurora, CO.

Length: 2 weeks (67-77 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train warrant officers and enlisted personnel in the repair and calibration of specific closed circuit television equipment.

Instruction: Lectures and practical exercises in the maintenance and repair of specific monitors and cameras.

Credit Recommendation: In the vocational certificate category, 2 semester hours in closed circuit television/camera/monitor repair (9/85).

AR-1715-0624

PERSHING ELECTRONIC MATERIAL SPECIALIST
BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 121-21G30.

Location: Field Artillery School, Ft. Sill, OK.

Length: 3-5 weeks (115-191 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train enlisted personnel to perform the tasks as required of a Pershing materiel supervisor.

Instruction: Topics include Pershing missile maintenance operation, count down operations, system electronics, maintenance procedures, troubleshooting, system tactics and communications.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (3/88).

Related Occupations: 21G.

AR-1715-0629

METEOROLOGICAL TECHNICIAN WARRANT OFFICER
TECHNICAL CERTIFICATION

Course Number: 5B-201A.

Location: Field Artillery School, Ft. Sill, OK.

Length: 16-17 weeks (594 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train meteorological warrant officer candidates in the technical aspects of meteorological instruments and equipment.

Instruction: Lecture and practical experience in the operation of a meteorological section, organizational maintenance of electronic, optical, and mechanical meteorological instruments and equipment.

Credit Recommendation: In the vocational certificate category, 6 semester hours in troubleshooting and maintenance of electronic systems (11/85); in the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology and 2 in basic electricity and electronics (11/85).

Related Occupations: 201A.

AR-1715-0630

FIREFINDER MAINTENANCE SUPERVISOR

Course Number: 4C-F24.

Location: Field Artillery School, Ft. Sill, OK.

Length: 19-20 weeks (744-774 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide technicians with the knowledge and skills required to supervise the maintenance and repair of the firefinder radar.

Instruction: Lectures and demonstrations in AC/DC circuits, solid state devices, integrated circuits, digital electronic logic circuits, and computers.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in fundamentals of electricity and electronics, 3 in digital circuit theory, 3 in microcomputer fundamentals, 3 in electronic devices, 3 in radar theory, and 3 in radar/computer systems maintenance and troubleshooting (6/89).

AR-1715-0631

FIELD ARTILLERY DIGITAL SYSTEM REPAIRER

Course Number: 113-34L10.

Location: Field Artillery School, Ft. Sill, OK.

Length: 16 weeks (583 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train enlisted personnel in basic and digital electronic maintenance, mortar fire control systems, message devices, battery computer systems, and related test equipment.

Instruction: Lectures and practical exercises in AC/DC circuits, solid state devices, special solid state devices, integrated circuits, digital electronic logic circuits, maintaining and troubleshooting digital computer system, and performing basic reliable soldering.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity and electronics, 3 in digital circuit theory, 3 in electronic devices, and 3 in digital computer theory (11/85).

Related Occupations: 34L.

AR-1715-0633

FIELD ARTILLERY CANNON WEAPON SYSTEMS
QUALIFICATION

Course Number: 2E-FOA-F77.

Location: Field Artillery School, Ft. Sill, OK.

Length: 2-3 weeks (52-80 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide training to commissioned officers in the operation, maintenance, and employment of cannon systems.

Instruction: Lecture, demonstration, and field instruction in artillery ammunition, battery personnel operation, and maintenance systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/86).

AR-1715-0635

FIELD ARTILLERY RADAR BASIC
NONCOMMISSIONED OFFICER (NCO)
(Field Artillery Radar Basic Technical)

Course Number: 221-13R/17B30; 221-13R30/221-17B30.

Location: Field Artillery School, Ft. Sill, OK.

Length: 5-6 weeks (201-245 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide the technical knowledge and skills required to support field artillery firing units.

Instruction: Topics include operations and site selection for specific fire control radars, radar gunnery and survey, and preventive maintenance on the radars and support equipment.

Credit Recommendation: In the vocational certificate category, 3 semester hours in radar operations (12/86); in the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (12/86).

Related Occupations: 13R; 17B.

AR-1715-0636

PERSHING II MISSILE CREWMEMBER BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 042-15E30.

Location: Field Artillery School, Ft. Sill, OK.

Length: 5 weeks (179 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train selected enlisted personnel to perform tasks required of a Pershing missile crewmember.

Instruction: Lectures and practical experience in Pershing missile firing operations, missile mating, tactics, communications, maintenance, and special weapons.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (1/85).

Related Occupations: 15E.

AR-1715-0638

TACTICAL FIRE (TACFIRE) OPERATIONS
SPECIALIST BASIC NONCOMMISSIONED
OFFICER (NCO)

(Tactical Fire (TACFIRE) Operations Specialist Basic Technical)

Course Number: 250-13C30.

Location: Field Artillery School, Ft. Sill, OK.

Length: 7-11 weeks (249-420 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide TACFIRE operation specialists with additional training on the tactical fire (TACFIRE) direction center system.

Instruction: Lectures and practical experience necessary to tactically employ, operate and maintain the tactical fire direction computer system are provided.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (1/92).

Related Occupations: 13C.

AR-1715-0639

MEDICAL EQUIPMENT REPAIRER ADVANCED

Course Number: 4B-670A/198-35U30; 4B-670A/198-35U20.

Location: Medical Equipment and Optical School, Aurora, CO.

Length: 30 weeks (1150 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the warrant officer will be able to perform as a medical equipment repair technician and enlisted personnel will perform as medical equipment repairmen.

Instruction: Lectures and practical exercises in installation, inspection, maintenance, repair, calibration, and adjustment of selected electrically and electronically controlled or operated medical equipment, including electricity and electronics and maintenance management. Topics include fundamentals of AC and DC circuits, solid state devices and circuits, digital devices and circuits, microprocessors and principles of operation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in DC/AC fundamentals, 3 in solid state devices and circuits, 3 in digital/microprocessor electronics, and 6 in biomedical equipment maintenance (8/95).

Related Occupations: 35U.

AR-1715-0641

CHAPARRAL/REDEYE REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)

(Chaparral/Redeye Repairer Basic Technical (BT))

Course Number: 121-27G30.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 7.8 weeks (243-278 hours)

Exhibit Dates: 1/90-1/96

Objectives: To provide Army personnel with skills and knowledge required to instruct, assist, and supervise subordinates on maintenance problems on the Chaparral and Redeye Weapon Systems and ancillary equipment.

Instruction: Personnel will be trained in system knowledge and skills required for the training and supervising of an intermediate maintenance level missile maintenance unit. Includes training in software fundamentals and hardware basics such as address decoding, memories, and peripherals and control circuits. Also includes troubleshooting on several electronic modules and test sets.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to microprocessor/computer hardware and 1 in electronic system maintenance (4/88).

Related Occupations: 27G.

AR-1715-0642

FORWARD AREA ALERTING RADAR (FAAR)
REPAIRER BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: 104-27N30.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 10 weeks (359 hours).

Exhibit Dates: 1/90-1/96.

Objectives: To provide Army personnel with skills and knowledge required to instruct, assist and supervise subordinates on maintenance of the Forward Area Alerting Radar and ancillary equipment.

Instruction: Personnel will be trained in systems knowledge and skills required for training and supervision of an intermediate maintenance level missile maintenance unit. Includes training in software fundamentals and hardware basics such as address decoding, memories and peripherals and control circuits. Also includes troubleshooting on several electronic modules and test sets.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to microprocessor/computer hardware and 2 in electronic systems maintenance (10/87).

Related Occupations: 27N.

AR-1715-0644

PERSHING II SUPPORT REPAIR TECHNICIAN (DG/
GS)

Course Number: 4F-F21.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 12-13 weeks (468 hours).

Exhibit Dates: 1/90-9/90.

Objectives: To provide selected warrant officers with the technical training to qualify them on new maintenance techniques and additional equipment.

Instruction: Lectures and practical exercises in quality control, inventory control, portable test equipment, electronic troubleshooting and repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems maintenance (4/86).

AR-1715-0647

HAWK MISSILE SUPPORT REPAIR TECHNICIAN (DS/
GS)

Course Number: 4F-F22

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 9-10 weeks (347 hours).

Exhibit Dates: 1/90-9/91

Objectives: To train selected warrant officers to perform and to supervise intermediate maintenance on the HAWK missile system.

Instruction: Lectures and practical exercises in automated support, soldering, computer logic and logic circuits, computer and microprocessor fundamentals.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to digital circuitry and 3 in introduction to computer/microprocessor hardware (4/86).

AR-1715-0649

PERSHING ELECTRICAL-MECHANICAL REPAIRER
BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 631-46N30.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 5 weeks (179 hours).

Exhibit Dates: 1/90-9/90.

Objectives: To train enlisted personnel to instruct, assist, and supervise subordinates in the maintenance of the Pershing missile system equipment.

Instruction: A study of shop operation and soldering. Also a study of the Pershing Missile System equipment.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (10/87).

Related Occupations: 46N.

AR-1715-0652

LAND COMBAT SUPPORT SYSTEM TEST SPECIALIST
BASIC NONCOMMISSIONED OFFICER (NCO)
(Land Combat Support System Test Specialist)

Course Number: 121-27B30.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 13 weeks (474-475 hours).

Exhibit Dates: 1/90-1/96.

Objectives: To provide Army personnel with the skills and knowledge required to instruct, assist and supervise subordinates in maintenance problems on the land combat support system and ancillary equipment.

Instruction: Personnel will be trained in management, system knowledge and skills required for the training and supervision of a missile maintenance unit. Includes training in microprocessor hardware.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in introduction to microprocessor hardware (4/86).

Related Occupations: 27B.

AR-1715-0654

PATRIOT COMMUNICATIONS CREWMEMBER

Course Number: 202-ASIX4; 202-F4.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 4-5 weeks (144-152 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide personnel with the knowledge and skills necessary to operate, emplace and perform organizational maintenance on missile system equipment.

Instruction: Course provides training on equipment, techniques of operation, traffic and data flow and organizational maintenance.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (1/92).

AR-1715-0655

AIR DEFENSE ARTILLERY (ADA) OFFICER
ADVANCED RESERVE COMPONENT (RC)

Course Number: None.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 4 weeks (151-161 hours).

Exhibit Dates: 1/90-6/94.

Objectives: To prepare reserve officers for command assignments in air defense artillery.

Instruction: Instruction includes topics pertaining to air defense command and control, tactics, electronic warfare, weapons and combined arms.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/86).

AR-1715-0656

WARRANT OFFICER TECHNICAL CERTIFICATION
(WOTC) CHAPARRAL/VULCAN SYSTEMS
TECHNICIAN

Course Number: 4F-140B; 4F-224B.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 18-20 weeks (669-694 hours).

Exhibit Dates: 1/90-9/90.

Objectives: To train personnel in the operation and maintenance of a radar air defense system.

Instruction: Study includes principles of operation and maintenance of a number of subsystems: radar, fire control, hydraulic drive, power distribution, transmitting, receiving, display and antenna. A study of basic digital concepts is included.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in digital fundamentals and 3 in electronic systems troubleshooting and maintenance (11/88).

AR-1715-0658

AVIONIC MECHANIC

Course Number: Version 1: 102-68N10; 102-35K10. Version 2: 102-68N10; 102-35K10.

Location: Signal School, Ft. Gordon, GA.

Length: Version 1: 20-23 weeks (752-808 hours). Version 2: 23-24 weeks (883-930 hours).

Exhibit Dates: Version 1: 10/90-Present. Version 2: 1/90-9/90.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to identify series, parallel, and series/parallel resistance circuits and determine values of resistance, voltage, and current in the circuit; maintain and repair avionic communication, navigation, stabilization, and radar systems. Given defective avionic equipment, the student will test, operate, identify and replace faulty

unit or component. *Version 2:* Upon completion of the course, the student will be able to maintain and repair avionic communication, navigation, stabilization, and radar systems. Given defective avionic equipment, the student will test, operate, identify and replace faulty unit or component.

Instruction: *Version 1:* Training includes topics in DC/AC circuits, reading schematic and wiring diagrams, filters, transformers, synchros and servos. Also included are extensive theory and laboratory exercises in avionic systems, including navigation systems, radio receiving systems and absolute altimeter systems. *Version 2:* Training includes topics in DC/AC circuits, reading schematic and wiring diagrams, filters, transformers, synchros and servos. Also included are extensive theory and laboratory exercises in avionic systems, including navigation systems, radio receiving systems and absolute altimeter systems.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic system troubleshooting, 3 in DC/AC circuits and 1 in radar systems (2/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic system troubleshooting and 2 in DC/AC circuits (6/90).

AR-1715-0660

AVIONIC RADAR REPAIRER
(Avionics Special Equipment Repair)

Course Number: 102-35R10; 102-68R10.
Location: Aviation School, Ft. Rucker, AL; Signal School, Ft. Gordon, GA.
Length: 24-27 weeks (928-1026 hours).
Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify series, parallel, and series/parallel circuits, and determine values of resistance, voltage, and current in the circuits; comprehend concepts of alternating current including frequency, phase, and reactance; explain concepts of series and parallel resonance and basics of transformer operation; explain basic operation of semiconductors, junction diodes, and bipolar transistors and identify their use in rectifier circuits and voltage regulators; troubleshoot and explain the operation of basic transistor amplifiers, power amplifiers, and operational amplifiers; explain the operation of FETs, SCRs, and UJT's, and troubleshoot and explain the operations of sine-wave oscillators, multivibrator circuits, and Schmitt trigger circuits; comprehend single sideband communication techniques including signal tracing and alignment of equipment; explain principles of communication using amplitude modulation techniques; trace signal path, troubleshoot, and align receivers and transmitters; comprehend frequency modulation communication techniques, including signal tracing and alignment of receiver and transmitter; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers, and counters; explain the theory and operation of microprocessor-based computers including the concept of buses, memory, control signals, and addressing; solder and desolder wire to various types of electronic terminals.

Instruction: Includes electrical, electronic, digital, and communications non-calculus-based theory; hands-on evaluation and maintenance

procedures of complex electronic systems with dedicated specialized test equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in soldering (7/92); in the lower-division baccalaureate/associate degree category, 1 semester hour in AC circuits, 1 in DC circuits, 3 in solid state electronics, 2 in electronic communications, 1 in digital fundamentals, 1 in microprocessors, 3 in electronic systems troubleshooting and maintenance, and 3 in radar systems (7/92).

Related Occupations: 35R; 68R.

AR-1715-0661

FIELD COMMUNICATIONS SECURITY (COMSEC)
EQUIPMENT REPAIR

Course Number: 160-29S10.
Location: Signal School, Ft. Gordon, GA.
Length: 18-21 weeks (675-756 hours).
Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform simple circuit analysis of electronic and transistor circuits, be able to connect and test these circuits, and be able to perform limited maintenance on various types of communications security equipment.

Instruction: Lectures and performance exercises in operation and maintenance of COMSEC equipment. Strong emphasis is placed on limited maintenance of secure communications equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronics laboratory, 1 in DC circuits, 1 in AC circuits, 1 in solid state electronics, and 3 in electronic systems troubleshooting and maintenance (7/92).

Related Occupations: 29S.

AR-1715-0663

RADIO REPAIRER

Course Number: 101-29E10.
Location: Signal School, Ft. Gordon, GA.
Length: 25-27 weeks (948-1023 hours).
Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify series, parallel and series/parallel circuits, and to determine values of resistance, voltage, and current in the circuits; explain the basic operation of semiconductors, junction diodes, and bipolar transistors, and identify their use in rectifier circuits and voltage regulators; comprehend concepts of alternating current including frequency, phase, and reactance; explain concepts of series and parallel resonance and basics of transformer operation; troubleshoot and explain the operation of basic transistor amplifiers, power amplifiers and operational amplifiers; explain the operation of FETs, SCRs, and UJT's and troubleshoot and explain the operation of sine wave, oscillator, multivibrator circuits and Schmitt trigger circuits; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers and counters; explain principles of communication using amplitude modulation techniques; trace signal path, troubleshoot and align receivers and transmitters; comprehend frequency modulation communication techniques, including signal tracing and alignment of receiver and transmitter; comprehend single sideband communication techniques including

signal tracing and alignment of equipment; solder and desolder electronic components to printed circuit boards; align, troubleshoot and repair radio receivers, transmitters and associated equipment.

Instruction: Lectures and practical exercises providing the necessary skills to perform general electronic repair of AM, FM, and single-sideband communication equipment. Instruction includes topics of basic electronic circuits, electron tubes, solid state devices, receiver and transmitter alignment, power supplies, digital logic circuits and radio teletype equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in soldering techniques (6/89); in the lower-division baccalaureate/associate degree category, 1 semester hour in DC circuits, 1 in AC circuits, 1 in digital principles, 3 in solid state electronics, 3 in electronic communications, 2 in basic electronics laboratory, and 4 in electronic systems troubleshooting and maintenance (6/89).

Related Occupations: 29E.

AR-1715-0665

DIGITAL RADIO AND MULTIPLEXER ACQUISITION
(DRAMA) COMMUNICATIONS SYSTEMS
REPAIR
(Digital Radio Multiplexer Acquisition
(DRAMA))

Course Number: 101-F22.
Location: Signal School, Ft. Gordon, GA.
Length: 4 weeks (144 hours).
Exhibit Dates: 1/90-12/91.

Learning Outcomes: Upon completion of the course, the student will be able to operate, test, troubleshoot, and repair digital multiplexers and radios in the digital radio and multiplexer acquisition system.

Instruction: Includes lectures and performance exercises in the operation and maintenance of the communications system.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (10/87).

AR-1715-0666

DIGITAL EUROPEAN BACKBONE (DEB)
COMMUNICATIONS SYSTEM REPAIR

Course Number: 101-F16.
Location: Signal School, Ft. Gordon, GA.
Length: 7 weeks (252 hours).
Exhibit Dates: 1/90-8/91.

Learning Outcomes: Upon completion of the course, the student will be able to operate, align, test, troubleshoot, and repair digital multiplexers and radios used in a digital communications system.

Instruction: Includes lectures and performance exercises on operation and maintenance of digital communications systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronic systems troubleshooting (3/88).

AR-1715-0667

DIGITAL COMMUNICATIONS SUBSYSTEMS

Course Number: 102-F40; 102-F40/102-F40 (26Y)
Location: Signal School, Ft. Gordon, GA.
Length: 7-8 weeks (252-288 hours).
Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate and maintain digital communications subsystems. The student will be able to configure and troubleshoot digital communications subsystems.

Instruction: Lectures and practical exercises provide the skills to operate and maintain digital communications subsystems. Topics covered include multiplexers, modems, encoders, decoders, and communication subsystems. Laboratory experience is given in configuration, alignment and troubleshooting of digital communication systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in digital communications (2/94).

Related Occupations: 26Y.

AR-1715-0668

TRANSPORTABLE AUTOMATIC SWITCHING SYSTEMS
OPERATOR/MAINTAINER

Course Number: *Version 1:* 622-36L10.
Version 2: 622-36L10

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 21-22 weeks (785 hours). *Version 2:* 26-28 weeks (951-1052 hours).

Exhibit Dates: *Version 1:* 6/93–Present.
Version 2: 1/90–5/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to demonstrate a knowledge of basic DC/AC circuits, diodes, power supplies, transistors, logic gates, counters, binary and hex numbering systems, basic soldering techniques, and will be able to operate, install, maintain, and troubleshoot specified automatic telephone central switching systems. *Version 2:* Upon completion of the course, the student will be able to demonstrate a basic knowledge of DC/AC circuit theory, various solid state devices such as multiplexers and gates, digital numbering systems, organized troubleshooting techniques, and a detailed knowledge of the design, operation, and maintenance for automatic telephone central switching systems.

Instruction: *Version 1:* Classroom and practical exercises in DC/AC fundamentals, diodes, power supplies, transistors, digital logic gates and counters, basic soldering practices, and the operation, installation, and troubleshooting of specified automatic telephone switching systems. *Version 2:* Training includes topics in DC/AC fundamentals, circuit theory, basic electronics including solid state technology, digital numbering systems, digital devices such as multiplexers, and gates, and the design, operation and maintenance procedures for the automatic telephone switching system.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in soldering techniques (2/94); in the lower-division baccalaureate/associate degree category, 3 semester hours in DC/AC circuits, 1 in solid state electronics, and 1 in digital principles (2/94). *Version 2:* In the vocational certificate category, 3 semester hours in automatic telephone switching systems (6/90); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 1 in DC circuits, 2 in AC circuits, 2 in digital principles, 1 in solid state electronics, and 3 in electronic systems troubleshooting and maintenance (6/90).

Related Occupations: 36J

AR-1715-0669

FIXED COMMUNICATIONS SECURITY (COMSEC)
EQUIPMENT REPAIR

Course Number: 160-29F10

Location: Signal School, Ft. Gordon, GA

Length: 13-16 weeks (491-562 hours)

Exhibit Dates: 1/90-7/90

Learning Outcomes: Upon completion of the course, the student will identify series, parallel and series/parallel DC circuits and determine values of resistance, voltage, and current in the circuits; comprehend AC circuit concepts including frequency, phase and reactance; solder and desolder wire to various types of electronic terminals; and perform limited maintenance on communications security equipment.

Instruction: Classroom and practical exercises on topics in DC and AC circuits, soldering techniques, and on the specific equipment

Credit Recommendation: In the vocational certificate category, 2 semester hours in soldering techniques (3/90); in the lower-division baccalaureate/associate degree category, 1 semester hour in DC circuits, 1 in AC circuits, 1 in basic electronics laboratory, and 1 in electronic systems troubleshooting and maintenance (3/90).

Related Occupations: 29F.

AR-1715-0670

SWITCHING CENTRAL REPAIRER
(Telephone Central Office Repairer)

Course Number: 622-29N10.

Location: Signal School, Ft. Gordon, GA.

Length: 18-19 weeks (700 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify series, parallel, and series/parallel resistive circuits and determine values of resistance, voltage, and current in the circuits; recognize the meaning of frequency, period, sine wave, phase shift, inductance, capacitance, reactance, and impedance; calculate voltage and current in transformers; calculate quality, bandwidth, and cutoff frequencies of filters; calculate impedances, voltages and current in capacitive and inductive AC circuits, power supplies, and digital circuits; diagnose defective automatic telephone switchboards and perform repairs.

Instruction: Lectures and practical exercises on manual, semiautomatic and automatic telephone switching systems and associated equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in telephone switching equipment repair (6/90); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronics laboratory, 1 in DC circuits, 2 in AC circuits, 1 in digital principles, and 1 in electronic systems troubleshooting and maintenance (6/90).

Related Occupations: 29N.

AR-1715-0671

TACTICAL SATELLITE/MICROWAVE REPAIRER

Course Number: 101-26L10; 101-29M10.

Location: Signal School, Ft. Gordon, GA.

Length: 28-30 weeks (1022-1140 hours).

Exhibit Dates: 1/90-6/92.

Learning Outcomes: Upon completion of the course, the student will be able to identify series, parallel, and series/parallel DC circuits and determine values of resistance, voltage, and current in the circuits; comprehend AC circuit concepts including frequency, phase, and reactance; solder and desolder wire to various types of electronic terminals; troubleshoot and explain operation of basic transistor amplifiers, power amplifiers, and operational amplifiers; explain operation of FETs, SCRs, and IJTs; troubleshoot and explain the operation of sine-wave oscillator, multivibrator circuits and Schmitt trigger circuits; comprehend FM communication systems, digital communication (including multiplexing) and satellite communications; trace signals and align receivers and transmitters; convert between and perform arithmetic in decimal, binary, octal and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers and counters; perform limited maintenance on military-specific equipment.

Instruction: Lectures and practical exercises with a strong emphasis on troubleshooting of circuits and systems studied.

Credit Recommendation: In the vocational certificate category, 2 semester hours in soldering techniques (6/90); in the lower-division baccalaureate/associate degree category, 1 semester hour in DC circuits, 1 in AC circuits, 3 in solid state electronics, 1 in digital principles, 3 in basic electronics laboratory, 3 in electronic systems troubleshooting and maintenance, and 2 in electronic communications (6/90).

AR-1715-0672

MICROWAVE SYSTEMS OPERATOR-MAINTAINER
(Strategic Microwave Systems Repairer)

Course Number: *Version 1:* 101-31P10.
Version 2: 101-31P10. *Version 3:* 101-29V10.
Version 4: 101-29V10; 101-26V10.

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 27 weeks (972 hours).
Version 2: 31-32 weeks (1145 hours). *Version 3:* 30-32 weeks (1121-1287 hours). *Version 4:* 30-31 weeks (1106 hours).

Exhibit Dates: *Version 1:* 10/95–Present.
Version 2: 10/93–9/95. *Version 3:* 7/90–9/93.
Version 4: 1/90–6/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to identify series, parallel, and series/parallel resistance circuits and determine values of resistance, voltage, and current in the circuit; explain the basic operation of semiconductors, junction diodes, and transistors and identify their uses in rectifier circuits and voltage regulators; explain frequency modulation communication techniques; trace signal path, troubleshoot, and align FM receivers and transmitters; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers, and counters; solder and desolder wire to various types of electronic terminals; and perform maintenance on microwave FM and digital radio communications systems. This version is pending evaluation. *Version 2:* Upon completion of the course, the student will be able to identify series, parallel, and series/parallel resistance circuits and determine values of resistance, voltage, and current in the circuit; explain the basic operation of semiconductors, junction diodes, and transistors and identify their uses in

rectifier circuits and voltage regulators; explain frequency modulation communication techniques; trace signal path, troubleshoot, and align FM receivers and transmitters; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers, and counters; solder and desolder wire to various types of electronic terminals; and perform maintenance on microwave FM and digital radio communications systems. *Version 3:* Upon completion of the course, the student will be able to identify series, parallel and series/parallel resistance circuits and determine values of resistance, voltage, and current in the circuit; explain the basic operation of semiconductors, junction diodes, and transistors and identify their uses in rectifier circuits and voltage regulators; explain frequency modulation communication techniques; trace signal path, troubleshoot, and align FM receivers and transmitters; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers, and counters; explain the theory and operation of microprocessor-based computers, including the concepts of buses, memory, control signals, and addressing; solder and desolder wire to various types of electronic terminals; operate, maintain, troubleshoot, and repair digital communication systems; and troubleshoot and repair fiber optic cable assemblies. *Version 4:* Upon completion of the course, the student will be able to identify series, parallel, and series/parallel resistive circuits and determine values of resistance, voltage and current; recognize the meaning of frequency, period, sine wave, phase shift, inductance, reactance, capacitive reactance, and impedance; calculate voltage and current in transformers; explain the basic operation of semiconductors, junction diodes, and transistors and identify their uses in rectifier circuits and voltage regulators; troubleshoot and explain the operation of basic transistor amplifiers and power amplifiers; identify operational amplifiers; explain the operation of FETs, SCRs and UJT's; troubleshoot and explain the operation of sine wave oscillators, multivibrator circuits, and Schmitt trigger circuits; comprehend frequency modulation communication techniques; trace signal paths; troubleshoot and align FM receivers and transmitters; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers and counters; explain the theory and operation of microprocessor-based computers including the concepts of buses, memory, control signals, and addressing; explain how a microcomputer performs arithmetic and logic operations; use machine language instructions; solder and desolder wire to various types of electronic terminals; and troubleshoot and repair microwave radio systems.

Instruction: *Version 1:* Classroom and laboratory exercises in basic DC/AC circuits, diodes, transistors, power supplies, FM transmitters and receivers, digital logic gates and counters, and basic soldering. Specific instruction and exercises in aligning and maintaining microwave communications equipment and related devices. This version is pending evaluation. *Version 2:* Classroom and laboratory exercises in basic DC/AC circuits, diodes, transistors, power supplies, FM transmitters and receivers, digital logic gates and counters, and

basic soldering. Specific instruction and exercises in aligning and maintaining microwave communications equipment and related devices. *Version 3:* Lectures and practical exercise in DC circuits, AC circuits, regulated DC power supplies, FM receivers, digital electronics, microprocessors, digital communication systems, and fiber optics cable fabrication and repair. Special emphasis is given to the use of test and measurement equipment at microwave frequencies. *Version 4:* Lectures and practical exercises on electronics.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 1 semester hour in soldering techniques (2/94); in the lower-division baccalaureate/associate degree category, 3 semester hours in DC/AC circuits, 1 in solid state electronics, 1 in digital principles, 1 in electronic communications, 3 in basic electronics laboratory, and 3 in electronic system troubleshooting and maintenance (2/94). *Version 3:* In the vocational certificate category, 1 semester hour in soldering techniques (2/94); in the lower-division baccalaureate/associate degree category, 3 semester hours in DC circuits, 1 in AC circuits, 3 in solid state electronics, 2 in microprocessors, 2 in digital principles, 2 in electronic communications, 2 in digital communications, and 3 in electronic systems troubleshooting and maintenance (2/94). *Version 4:* In the vocational certificate category, 2 semester hours in soldering techniques (6/90); in the lower-division baccalaureate/associate degree category, 3 semester hours in solid state electronics, 2 in microprocessors, 1 in DC circuits, 2 in electronic communications, 2 in AC circuits, and 3 in electronic systems troubleshooting and maintenance (6/90).

Related Occupations: 26V; 29V.

AR-1715-0673

USAF ORGANIZATIONAL/INTERMEDIATE
MAINTENANCE OF THE AN/MS-C-64
SATELLITE COMMUNICATIONS
(SATCOM) TERMINAL

Course Number: 101-F20.

Location: Signal School, Ft. Gordon, GA.

Length: 3-5 weeks (138-168 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, student will be able to operate, test, troubleshoot, and repair a satellite communications terminal.

Instruction: Includes lectures and performance exercises on the operation and maintenance of a SATCOM terminal.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (6/88).

AR-1715-0677

FIELD COMMUNICATIONS SECURITY (COMSEC)
EQUIPMENT FULL MAINTENANCE

Course Number: 160-ASIG7.

Location: Signal School, Ft. Gordon, GA.

Length: 18-22 weeks (658-785 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to explain the basic operation of semiconductors, junction diodes, and bipolar transistors and identify their use in rectifier circuits and voltage regulators; troubleshoot and explain the operation of basic transistor amplifiers, power amplifiers, and

operational amplifiers; explain the operation of FETs, SCRs, and UJT's and troubleshoot and explain the operation of sine wave oscillators, multivibrator circuits, and Schmitt trigger circuits; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers, and counters; solder and desolder wire to various types of electronic terminals; solder and desolder electronic components to printed circuit boards; and troubleshoot, and repair a number of specific military communications systems.

Instruction: Includes lectures and performance exercises on solid state, electronic circuits, and digital circuits and on various types of COMSEC equipment. Strong emphasis is placed on troubleshooting and repair of circuit boards.

Credit Recommendation: In the vocational certificate category, 4 semester hours in soldering techniques (7/89); in the lower-division baccalaureate/associate degree category, 3 semester hours in solid state electronics, 1 in digital principles, 1 in basic electronics laboratory, and 3 in electronic systems troubleshooting and maintenance (7/89).

AR-1715-0678

STRATEGIC MICROWAVE SYSTEMS REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 101-29V30.

Location: Signal School, Ft. Gordon, GA.

Length: 6-16 weeks (239-609 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide technical assistance and supervision to subordinates in the maintenance and operation of microwave multichannel radio and multiplex equipment and systems.

Instruction: Review of fundamentals of digital communications including transistor filters, microwave propagation, digital techniques, nodal architecture, digital group multiplexer, emergency power sources, maintenance administration, communication security and site supervision.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in microwave communication. See AR-1406-0090 for common core credit (2/94).

AR-1715-0679

SATELLITE COMMUNICATION (SATCOM)
FUNDAMENTALS

Course Number: 102-F39.

Location: Signal School, Ft. Gordon, GA.

Length: 12 weeks (432 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate and maintain digital communication subsystems. The student will perform functional analysis, operational checks, signal tracing, and troubleshooting of digital receivers and transmitters.

Instruction: Topics include fundamentals of defense satellite communications systems, digital electronics techniques, operation, maintenance and troubleshooting digital communication subsystems using readings, lectures, discussions, and evaluation by test and performance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in digital communications and 3 in electronic systems troubleshooting and maintenance (7/92).

AR-1715-0680

DIAL CENTRAL OFFICE REPAIRER

Course Number: 101-ASIV-2

Location: Signal School, Ft. Gordon, GA.

Length: 13 weeks (494 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to perform direct and general support as well as depot-level maintenance on dial central office telephone exchange equipment.

Instruction: Includes lectures, demonstrations, and performance exercises in the operation and maintenance of dial central office systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in dial central office equipment maintenance (2/87).

AR-1715-0681

FIXED COMMUNICATIONS SECURITY (COMSEC)
EQUIPMENT REPAIRER (TRANSITION 32G)
(Fixed Cryptographic Equipment Repair
Transition 32F)

Course Number: 160-29F10/20/30-T
(32F); 160-29F10/20/30-T.

Location: Signal School, Ft. Gordon, GA.

Length: 3-8 weeks (144-296 hours).

Exhibit Dates: 1/90-10/90.

Learning Outcomes: Upon completion of the course, the student will be able to restore fixed cryptographic equipment to operation by substitution of pluggable assemblies, subassemblies, elements, and printed wiring assemblies. The student will demonstrate ability to perform tasks such as limited preventive maintenance and troubleshooting of communication terminals.

Instruction: Topics in limited maintenance and troubleshooting of secure communications terminals are covered using readings, lectures, discussions, exercises and evaluation by tests and performance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronic systems troubleshooting (7/89).

Related Occupations: 29F.

AR-1715-0682

TACTICAL SATELLITE/MICROWAVE SUPERVISOR
BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 101-29M30.

Location: Signal School, Ft. Gordon, GA.

Length: 7-8 weeks (280 hours).

Exhibit Dates: 1/90-11/91.

Learning Outcomes: Upon completion of the course, the student will be able to establish and maintain parts inventory; requisition parts; maintain records; explain concepts of digital multiplexing for voice and data transmission; explain the operation of modems and group multiplexing equipment; and troubleshoot data communications equipment.

Instruction: Classroom lectures and practical exercises are used to present topics on supply management and digital communications equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in supply management, 2 in data communications and 1 in electronic systems troubleshooting and maintenance. See AR-1406-0090 for common core credit (6/90).

Related Occupations: 29M

AR-1715-0685

RADIO REPAIRER BASIC NONCOMMISSIONED
OFFICER (NCO)

(Communication Electronics Radio

Repairer Basic Noncommissioned
Officer (NCO))

Course Number: *Version 1:* 101-29E30.
Version 2: 101-29E30.

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 10-11 weeks (367 hours). *Version 2:* 6-9 weeks (216-319 hours).

Exhibit Dates: *Version 1:* 10/91-Present.
Version 2: 1/90-9/91

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to set up and manage a repair facility and supervise the repair personnel. *Version 2:* Upon completion of the course, the student will be able to provide technical assistance and supervision to subordinates in the maintenance of radio communications equipment.

Instruction: *Version 1:* Review of general Army communication systems, maintenance management, supply procedures and inventory control. *Version 2:* Review of general Army communication systems, maintenance management, supply procedures and inventory control.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management. See AR-1406-0090 for common core credit (2/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in maintenance management. See AR-1406-0090 for common core credit (6/90).

Related Occupations: 29E.

AR-1715-0687

FIXED CIPHERY REPAIRER
(Fixed Ciphony Repairer (Transition) (32G))

Course Number: 160-29F10/20/30-T
(32G).

Location: Signal School, Ft. Gordon, GA.

Length: 3-7 weeks (130-243 hours).

Exhibit Dates: 1/90-10/90.

Learning Outcomes: Upon completion of the course, the student will be able to restore fixed ciphony equipment to operation by substitution of pluggable assemblies, subassemblies, elements, and printed wiring assemblies. The student will perform limited maintenance, operational testing and troubleshooting of the equipment.

Instruction: Topics in limited maintenance, operational testing, and troubleshooting secure communication terminals are covered using readings, lectures, discussions, exercises, and evaluation by testing and performance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronic systems troubleshooting (7/89).

Related Occupations: 29F.

AR-1715-0688

INERTIAL NAVIGATION SET AN/ASN-86 REPAIR

Course Number: 102-ASIR-5

Location: Signal School, Ft. Gordon, GA.

Length: 10 weeks (362 hours)

Exhibit Dates: 1/90-7/91

Learning Outcomes: Upon completion of the course, the student will be able to inspect test, and perform organizational, direct, and general support maintenance on the inertial navigation set AN/ASN-86.

Instruction: Includes lectures and performance exercises on the operation and maintenance of the navigation set.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic systems troubleshooting (2/87).

AR-1715-0689

1. TELECOMMUNICATIONS TERMINAL DEVICE
REPAIRER BASIC NONCOMMISSIONED
OFFICER (NCO)

2. TELETYPEWRITER EQUIPMENT REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 160-29J30.
Version 2: 160-29J30.

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 13-14 weeks (505 hours). *Version 2:* 10-11 weeks (389 hours).

Exhibit Dates: *Version 1:* 10/91-Present.
Version 2: 1/90-9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to explain the theory and operation of microprocessor-based computers, including the concepts of buses, memory, control signals, addressing, machine implementation of assembly language instructions, interfacing, and interrupt processing; and supervise repair facilities for telecommunications equipment. *Version 2:* Upon completion of the course, the student will be able to convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers, and counters; explain the theory and operation of microprocessor-based computers including the concepts of buses, memory, control signals, and addressing; supervise repair facilities for teletype equipment.

Instruction: *Version 1:* Lectures and practical exercises in microprocessor fundamentals, instruction execution, and installation and maintenance of military-specific computer and communication systems. *Version 2:* Lectures on supervisory practices for repair facilities, recordkeeping, supply procedures and quality control.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in microprocessors and 3 in electronic systems troubleshooting and maintenance. See AR-1406-0090 for common core credit (2/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in digital principles, 1 in microprocessors, and 3 in electronic systems troubleshooting and maintenance. See AR-1406-0090 for common core credit (7/89).

Related Occupations: 29J.

AR-1715-0690

COMMUNICATIONS SECURITY (COMSEC)
EQUIPMENT TSEC/KI-1A REPAIR

Course Number: 160-F30 (29S).

Location: Signal School, Ft. Gordon, GA.

Length: 7-8 weeks (274 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to troubleshoot and repair specific communications security equipment to the component level.

Instruction: Lectures and practical exercises with emphasis on troubleshooting. Student uses oscilloscope, multimeter, and hand tools to troubleshoot and repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting (2/87).

Related Occupations: 29S.

AR-1715-0691

DEFENSE SATELLITE COMMUNICATIONS SYSTEM
(DSCS) GROUND MOBILE FORCES (GMF)
CONTROLLER

Course Number: 102-ASIQ1.

Location: Signal School, Ft. Gordon, GA.

Length: 14 weeks (504 hours).

Exhibit Dates: 1/90–9/91.

Learning Outcomes: Upon completion of the course, the student will be able to operate, troubleshoot, and repair the Defense Satellite Communications Ground Mobile Forces Control Equipment.

Instruction: Includes lectures, demonstrations and performance exercises on the operation and maintenance of GMF equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics systems troubleshooting and maintenance (7/89).

Related Occupations: 26Y.

AR-1715-0693

AN/TYC-39(V) OPERATOR (U.S.A.F)

Course Number: 260-F1 (72E).

Location: Signal School, Ft. Gordon, GA.

Length: 3-5 weeks (136-196 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to install, operate, and perform operator maintenance on a tactical automatic message switching central. The student will be able to load paper, prepare equipment for operation, interpret service messages, make log entries and enter commands.

Instruction: Topics in message processing, major components within the message processing shelter, power initialization/shut down procedures are covered using readings, lectures, discussions, exercises, evaluation by test and performance.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (2/88).

Related Occupations: 72E.

AR-1715-0694

SATELLITE COMMUNICATIONS (SATCOM)
CONTROLLER

Course Number: 4C-F19/102-AS1Y1; 4C-F19/102-AS1A1.

Location: Signal School, Ft. Gordon, GA.

Length: 10-15 weeks (360-540 hours).

Exhibit Dates: 1/90–9/91.

Learning Outcomes: Upon completion of the course, the student will be able to operate a satellite communications system.

Instruction: Lectures and practical exercises including the basics of satellite communi-

cations, signal flow in satellites and ground stations, satellite control, and system operation.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (7/89).

Related Occupations: 29Y.

AR-1715-0695

GROUND MOBILE FORCES INTERFACE SUBSYSTEM
(Data Processing Group OL-230/MSC-
66(V))

Course Number: *Version 1:* 102-F55; 102-F55 (26Y). *Version 2:* 102-F55; 102-F55 (26Y).

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 4 weeks (144 hours). *Version 2:* 2-3 weeks (72-88 hours).

Exhibit Dates: *Version 1:* 6/92–Present. *Version 2:* 1/90–5/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to operate, troubleshoot, align, and repair military-specific data communication equipment. *Version 2:* Upon completion of the course, the student will be able to operate and perform operator maintenance on the data processing group OL-230/MSC-66(V).

Instruction: *Version 1:* Lectures and practical exercises on the operation, maintenance, and alignment of a multiplexer system and a modem system. *Version 2:* Includes lectures, demonstrations, and performance exercises on maintaining the equipment.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in electronic systems operation and maintenance (2/94). *Version 2:* Credit is not recommended because of the limited, specialized nature of the course (6/89).

Related Occupations: 26Y.

AR-1715-0696

AH-64A AVIONIC MECHANIC

Course Number: 102-ASIX1 (35K); 102-ASIX1.

Location: Signal School, Ft. Gordon, GA.

Length: 3-5 weeks (104-154 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to test, troubleshoot, and repair AH-64A avionic communication and navigation systems.

Instruction: Lectures and performance exercises on troubleshooting communication and navigation systems on a helicopter.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in communication systems troubleshooting and maintenance (2/94).

Related Occupations: 35K.

AR-1715-0699

TACTICAL SATELLITE/MICROWAVE SYSTEMS
OPERATOR BASIC NONCOMMISSIONED
OFFICER (NCO)

(Tactical Satellite/Microwave Systems Operator Primary Technical)

Course Number: 201-31Q20; 201-26Q20.

Location: Signal School, Ft. Gordon, GA.

Length: 6-8 weeks (216-290 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to act as team chief in the installation, operator maintenance,

and troubleshooting of satellite and microwave communication equipment.

Instruction: Lectures and practical exercises on directing installation and maintenance of power generator sets and a radio set.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course. For credit for the common core, see AR-1406-0090 (2/94).

Related Occupations: 26Q.

AR-1715-0700

TACTICAL SIGNAL STAFF OFFICER
(Corps/Division Communications Operations Officer)

Course Number: 4C-FOA-F26.

Location: Signal School, Ft. Gordon, GA.

Length: 5-6 weeks (180-216 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to function in a corps/division as a communications specialist.

Instruction: Lectures and practical exercises on subjects related to procedures and equipment used in division/corps communications.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (6/90).

AR-1715-0701

SATELLITE COMMUNICATIONS (SATCOM)
TERMINAL AN/GSC-49

Course Number: *Version 1:* 102-ASIP4. *Version 2:* 102-ASIP4 (CT).

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 4 weeks (144 hours). *Version 2:* 18 weeks (648 hours).

Exhibit Dates: *Version 1:* 12/91–Present. *Version 2:* 1/90–11/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to operate and maintain a military satellite communication terminal, including VHF, digital, frequency conversion, amplifiers, and antenna subsystems. *Version 2:* Upon completion of the course, the student will be able to operate and maintain a military-specific communication terminal.

Instruction: *Version 1:* Lectures and practical exercises on satellite communications systems and antennas, and equipment failure and restoration. *Version 2:* Classroom and practical exercises involving the particular equipment.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in communications systems troubleshooting and maintenance (2/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in satellite communications systems and 3 in electronic systems troubleshooting and maintenance (6/89).

Related Occupations: 29Y.

AR-1715-0702

SATELLITE COMMUNICATIONS (SATCOM)
TERMINAL AN/FSC-78/79 and AN/
GSC-39

Course Number: 102-F42 (31S) (P); 102-F42.

Location: Signal School, Ft. Gordon, GA.

Length: 8 weeks (288 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate and maintain two SATCOM terminals. The student will be able to operate and maintain up/down converters, communication, antenna positioning, frequency generating and control/monitor equipment.

Instruction: Lectures and practical exercises including system overview, frequency conversion and synthesization, SATCOM sub systems, control and monitor equipment and troubleshooting to the lowest replacement unit, using readings, lectures, discussions, exercises and evaluation by test and performance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting (2/94).

AR-1715-0704

TELECOMMUNICATIONS TECHNICIAN WARRANT
OFFICER ADVANCED

Course Number: 4-11-C32-250A; 4-11-C32-290A.

Location: Signal School, Ft. Gordon, GA.

Length: 14 weeks (527 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the duties of a communications-electronics systems warrant officer. The student will have the necessary managerial and leadership abilities for supervisory and staff positions and have a thorough understanding of electronic warfare, NBC operations, air-land battle operational concepts, automatic data processing fundamentals, and logistics.

Instruction: Includes lectures, demonstrations, and performance exercises in all of the skill areas required of a communications-electronics warrant officer including the technical aspects of managing a telecommunication system and the general aspects of personnel supervision and logistics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to data processing and 1 in leadership (5/90).

Related Occupations: 290A.

AR-1715-0707

CALIBRATION AND REPAIR TECHNICIAN WARRANT
OFFICER ADVANCED

Course Number: 4-11-C32-252A.

Location: Signal School, Ft. Gordon, GA.

Length: 14 weeks (527 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the duties of a calibration and repair warrant officer. The student will have the necessary managerial and leadership abilities for supervisory and staff positions and have a thorough understanding of electronic warfare, NBC operations, air-land battle operational concepts, automatic data processing fundamentals, and logistics.

Instruction: Includes lectures, demonstrations, and performance exercises in all of the skill areas required of a calibration and repair warrant officer including the technical aspects of managing a maintenance system and the general aspects of personnel supervision and logistics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to data processing and 1 in leadership (2/87).

Related Occupations: 252A.

AR-1715-0708

AN/TTC-39(V) OPERATOR (USAF)

Course Number: 260-F2

Location: Signal School, Ft. Gordon, GA.

Length: 5.6 weeks (200 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to install, operate, and perform operator maintenance on a specific piece of tactical automatic telephone central office equipment. Given preinstalled, energized, and operational equipment, the student will perform various tasks such as start-up, manually loading the display unit, handling messages, and identifying operator-level faults.

Instruction: The course includes topics in power initialization, automatic data processing start-up procedures, initiation of communication security equipment, message handling, operator fault identification and isolation using readings, lectures, discussion, exercises and evaluation by test and performance.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (8/87).

AR-1715-0710

NONCOMMUNICATIONS INTERCEPT/ANALYST
(Electronic Warfare (EW) Signal Intelligence (SIGINT) Noncommunications Interceptor)

Course Number: *Version 1:* 233-98J10.
Version 2: 233-98J10.

Location: *Version 1:* Intelligence Center and School, Ft. Huachuca, AZ. *Version 2:* Intelligence School, Ft. Devens, MA.

Length: *Version 1:* 11 weeks (395-396 hours). *Version 2:* 16-19 weeks (510-610 hours).

Exhibit Dates: *Version 1:* 10/92–Present.
Version 2: 1/90–9/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to use technical references and equipment to search for selected classes of intercepted noncommunication electro-optic signals and to record and perform preliminary analysis and identification on these signals. *Version 2:* Upon completion of the course, the student will be able to use technical references and equipment to search for selected classes of intercepted noncommunication electro-optic signals and to record and perform preliminary analysis and identification on these signals.

Instruction: *Version 1:* Lectures, demonstrations, and performance exercises in map reading, data and signal analysis, basic electrical and communication theory, report writing, radio communication equipment operation and maintenance, Soviet and North Korean defense systems, and the identification, collection, and reporting of intercepted noncommunication signals. *Version 2:* Lectures, demonstrations, and performance exercises in map reading, data and signal analysis, basic electrical and communication theory, report writing, radio communication equipment operation and maintenance, Soviet and North Korean defense systems, and

the identification, collection, and reporting of intercepted noncommunication signals.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to radar systems and 2 in personnel management (6/91).

Related Occupations: 98J.

AR-1715-0711

TECHNICAL SURVEILLANCE COUNTERMEASURES,
PHASE 1
(Defense Against Sound Equipment
(DASE), Phase 1)

Course Number: 3C-SQIW/244-ASIG9;
3C-ASIG9L/244-ASIG9.

Location: Intelligence School, Ft. Devens, MA.

Length: 15-16 weeks (561-565 hours).

Exhibit Dates: 1/90–3/94.

Learning Outcomes: Upon completion of the course, the student will be conversant in fundamentals of electronics, communications and digital circuits.

Instruction: Instruction and practical exercises in DC circuits, AC circuits, solid state circuit analysis, communications systems signal analysis, and introduction to digital principles.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in DC circuits, 3 in AC circuits, 4 in solid state circuits, 3 in communications systems, and 2 in digital fundamentals (10/90).

AR-1715-0713

ELECTRONIC WARFARE (EW)/INTERCEPT AERIAL
SENSOR REPAIRER

Course Number: *Version 1:* 102-33V10.
Version 2: 102-33V10.

Location: Intelligence School, Ft. Devens, MA.

Length: *Version 1:* 18 weeks (656 hours).
Version 2: (phase 1), 24 weeks (849 hours).

Exhibit Dates: *Version 1:* 3/91–9/91. *Version 2:* 1/90–2/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will understand the theory, system concepts, circuit design, and laboratory experimentation with linear and digital solid state electronics, analog communications, 8-bit microcomputer hardware and organization with assembly language programming, and microcomputer peripherals including A/D and D/A converters. *Version 2:* Upon completion of the course, the student will be able to identify and correct problems in solid state, digital, and microprocessor-based communications subsystems, including A/D-D/A converters, UHF/VHF radio receiver and video displays.

Instruction: *Version 1:* Lectures, demonstrations, computer-assisted instruction, and laboratory exercises on solid state devices and circuits, communications systems, analog and digital electronics, and 8-bit microcomputer hardware and software including I/O devices. *Version 2:* Lecture, laboratory, demonstration, and performance exercises on electronic warfare/intercept aerial sensor systems.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in AC and DC circuits, 3 in digital logic, and 3 in analog communications (7/91); in the upper-division

baccalaureate category, 3 in operational amplifiers and application and 3 in introduction to microcomputers (7/91). *Version 2:* In the vocational certificate category, 4 semester hours in communications laboratory and 1 in PACE solder laboratory (5/87); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity/electronics (DC/AC), 4 in solid state circuit analysis, 4 in digital logic, and 3 in microprocessor fundamentals (5/87).

Related Occupations: 33V.

AR-1715-0714

ELECTRONIC WARFARE (EW)/INTERCEPT AVIATION SYSTEMS BASIC NONCOMMISSIONED OFFICER (NCO)

(Electronic Warfare (EW)/Intercept Aviation Equipment Repairer Basic Noncommissioned Officer (NCO))

Course Number: *Version 1:* 102-33R30. *Version 2:* 102-33R30.

Location: Intelligence School, Ft. Devens, MA.

Length: *Version 1:* 19-20 weeks (713 hours). *Version 2:* (595-596), 16-17 weeks.

Exhibit Dates: *Version 1:* 1/91-3/94. *Version 2:* 1/90-12/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to teach and supervise selected enlisted personnel in state-of-the-art troubleshooting and alignment techniques associated with electronic warfare/intercept aviation systems. *Version 2:* Upon completion of the course, the student will be able to teach and supervise selected enlisted personnel in state-of-the-art troubleshooting and alignment techniques associated with electronic warfare/intercept aviation systems.

Instruction: *Version 1:* Lectures, demonstrations, and practical exercises in counseling, personnel supervision, operations management, modulation techniques, computer organization and maintenance, and electronic equipment maintenance and troubleshooting. *Version 2:* Lectures, demonstrations, and practical exercises in counseling, personnel supervision, operations management, modulation techniques, time and frequency domain analysis, and electronic equipment maintenance and troubleshooting.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in electronic system troubleshooting and maintenance and 3 in computer system troubleshooting and maintenance (11/91); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic communications, 2 in computer systems and organization, and 2 in personnel management. See AR-1406-0090 for common core credit (11/91). *Version 2:* In the vocational certificate category, 3 semester hours in electronic systems troubleshooting and maintenance (7/91); in the lower-division baccalaureate/associate degree category, 4 semester hours in electronic communication and 1 in personnel management plus credit listed in AR-1406-0090 (7/91).

Related Occupations: 33R.

AR-1715-0715

ELECTRONIC WARFARE (EW)/INTERCEPT AVIATION SYSTEMS REPAIRER

Course Number: *Version 1:* 102-33R10. *Version 2:* 102-33R10.

Location: *Version 1:* Intelligence Center and School, Ft. Huachuca, AZ. *Version 2:* Intelligence School, Ft. Devens, MA.

Length: *Version 1:* 42-43 weeks (1533-1534 hours). *Version 2:* 35-36 weeks (1273 hours).

Exhibit Dates: *Version 1:* 10/93-Present. *Version 2:* 1/90-9/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to use common laboratory instruments and perform electronic laboratory work; analyze DC series, parallel, and series-parallel circuits; analyze RL and RC circuits; analyze filters and resonant circuits; explain the operation of solid-state devices; analyze analog circuits including class A, B, and C power amplifiers, power supplies, and oscillators; explain operational amplifier operation and circuits, describe the operation of vacuum tubes and vacuum tube circuits; perform conversions between decimal, binary, octal, and hexadecimal numbers; add and subtract binary and two's-complement numbers; explain the operation of digital circuit elements to include logic gates, flip-flops, counters, registers, decoders, and encoders; explain microprocessor processor system architecture and register structure; write assembly and machine language microprocessor programs; explain electronic communications concepts and devices including wave propagation, transmitters, AM, FM, pulse code modulation, receivers, transmission lines, antennas, and microwaves; able to troubleshoot a wide variety of electronic circuits and systems; perform electronic soldering. *Version 2:* Upon completion of the course, the student will be able to use common laboratory instruments and perform electronic laboratory work; analyze DC series, parallel, and series-parallel circuits; analyze RL and RC circuits; analyze filters and resonant circuits; explain the operation of solid-state devices; analyze analog circuits including class A, B, and C power amplifiers, power supplies, and oscillators; explain operational amplifier operation and circuits, describe the operation of vacuum tubes and vacuum tube circuits; perform conversions between decimal, binary, octal, and hexadecimal numbers; add and subtract binary and two's-complement numbers; explain the operation of digital circuit elements to include logic gates, flip-flops, counters, registers, decoders, and encoders; explain microprocessor processor system architecture and register structure; write assembly and machine language microprocessor programs; explain electronic communications concepts and devices including wave propagation, transmitters, AM, FM, pulse code modulation, receivers, transmission lines, antennas, and microwaves; able to troubleshoot a wide variety of electronic circuits and systems; perform electronic soldering.

Instruction: *Version 1:* Lecture, laboratory, demonstration, and performance exercises on electronic warfare/intercept aviation systems. *Version 2:* Lecture, laboratory, demonstration, and performance exercises on electronic warfare/intercept aviation systems.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 2 semester hours in soldering techniques (12/88); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 1 in DC circuits, 3 in AC circuits, 4 in digital principles, 4 in solid state electronics, 3 in microprocessors, 4 in electronic systems troubleshooting

and maintenance, and 4 in electronic communications (12/88).

Related Occupations: 33R.

AR-1715-0717

ELECTRONIC WARFARE (EW)/INTERCEPT STRATEGIC RECEIVING SUBSYSTEM REPAIRER BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 102-33P30.

Location: Intelligence School, Ft. Devens, MA.

Length: 19 weeks (683-689 hours).

Exhibit Dates: 1/90-12/90.

Learning Outcomes: Upon completion of the course, the student will be able to teach and supervise selected enlisted personnel in state-of-the-art troubleshooting and alignment techniques associated with electronic warfare/intercept systems.

Instruction: Lectures, demonstration, and practical exercises in counseling, personnel supervision, operations management, modulation techniques, computer organization and maintenance, and electronic equipment maintenance and repair.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic systems troubleshooting and maintenance, 3 in computer systems troubleshooting and maintenance (7/91); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic communications, 2 in computer systems and organization, 2 in personnel management. See AR-1406-0090 for common core credit (7/91).

Related Occupations: 33P.

AR-1715-0718

ELECTRONIC WARFARE (EW)/INTERCEPT STRATEGIC SIGNAL PROCESSING/STORAGE SUBSYSTEM REPAIRER

Course Number: 102-33Q10.

Location: Intelligence School, Ft. Devens, MA.

Length: 46-47 weeks (1715 hours).

Exhibit Dates: 1/90-3/94.

Learning Outcomes: Upon completion of the course, the student will be able to identify and correct problems in digital, analog, solid state and microprocessor based signal processing/storage subsystems, including modulators/demodulators, A/D-D/A converters, power supplies, demultiplex and digital recorders.

Instruction: Classroom study and practical experience through the use of laboratory work.

Credit Recommendation: In the vocational certificate category, 4 semester hours in communications laboratory and 1 in PACE solder laboratory (5/87); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity/electronics (AC/DC) theory, 4 in solid state circuit analysis, 4 in digital logic, and 3 in microprocessor fundamentals (5/87).

Related Occupations: 33Q.

AR-1715-0719

ELECTRONIC WARFARE (EW)/INTERCEPT STRATEGIC SIGNAL PROCESSING AND STORAGE SUBSYSTEM REPAIRER BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 102-33Q30.

Location: Intelligence School, Ft. Devens, MA

Length: 18-19 weeks (672-678 hours)

Exhibit Dates: 1/90-3/94

Learning Outcomes: Upon completion of the course, the student will be able to teach and supervise selected enlisted personnel state-of-the-art troubleshooting and alignment techniques associated with electronic warfare intercept systems

Instruction: Topics include military safety, map reading, first aid practices, counseling, personnel supervision, operations management, report writing, electronic troubleshooting, communication systems and practices of electronic maintenance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in map reading and 3 in advanced electronic maintenance (6/89); in the lower-division baccalaureate/associate degree category, 4 semester hours in communication systems, 5 in electronic troubleshooting, and 2 in personnel supervision. See AR-1406-0090 for common core credit (6/89).

Related Occupations: 33Q.

AR-1715-0720

ELECTRONIC WARFARE (EW)/INTERCEPT
STRATEGIC SYSTEMS ANALYST AND
COMMAND AND CONTROL SUBSYSTEMS
REPAIRER

Course Number: 102-33M20.

Location: Intelligence School, Ft. Devens, MA.

Length: 34 weeks (1236 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to perform maintenance on high speed serial RS-232 interface buss, IEE-488 parallel interface buss, disk, and tape drive controllers, line, printers, and minicomputers; the student will be able to write and run diagnostic assembly language programs.

Instruction: Lecture, laboratory, demonstration, and performance exercises on electronic warfare command and control subsystems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in computer architecture, 3 in computer programming, 4 in minicomputer programming, 3 in minicomputer hardware, and 6 in computer maintenance (5/87).

Related Occupations: 33M.

AR-1715-0721

ELECTRONIC WARFARE (EW)/INTERCEPT
STRATEGIC SYSTEMS ANALYST AND
COMMAND AND CONTROL SUBSYSTEMS
REPAIRER BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: 102-33M30.

Location: Intelligence School, Ft. Devens, MA.

Length: 18-19 weeks (663 hours).

Exhibit Dates: 1/90-12/90.

Learning Outcomes: Upon completion of the course, the student will be able to analyze and understand analog and digital communications systems signals, modulation and signal processing circuits. Also the student will attend to diagnostics and maintenance of the microcomputer system.

Instruction: Lecture and laboratory exercises that describe the theory and practice of electronic communication systems and mini-computer systems repair

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in computer maintenance and 2 in personnel management plus credits listed in AR-1406-0090 (7/91); in the upper-division baccalaureate category, 3 semester hours in communication systems (7/91)

Related Occupations: 33M

AR-1715-0722

ELECTRONIC WARFARE (EW)/INTERCEPT
TACTICAL SYSTEMS REPAIRER

Course Number: Version 1: 102-33T10. Version 2: 102-33T10. Version 3: 102-33T10.

Location: Version 1: Intelligence Center and School, Ft. Huachuca, AZ. Version 2: Intelligence School, Ft. Devens, MA. Version 3: Intelligence School, Ft. Devens, MA.

Length: Version 1: 35 weeks (1298 hours). Version 2: 32 weeks (1192 hours). Version 3: 39-40 weeks (1413-1424 hours).

Exhibit Dates: Version 1: 10/93-Present. Version 2: 4/91-9/93. Version 3: 1/90-3/91.

Learning Outcomes: Version 1: Pending evaluation. Version 2: Upon completion of the course, the student will understand the theory, system concepts, circuit design and laboratory experimentation with linear and digital solid-state electronics, analog communications, 8-bit microcomputer hardware and organization with assembly-language programming, and microcomputer peripherals including A/D and D/A convertors. Version 3: Upon completion of the course, the student will be able to identify and correct problems in solid state, analog, digital, and microprocessor-based communications subsystems, including A/D-D/A converters, modulators-demodulators. UHF/VHF radio receivers and video displays.

Instruction: Version 1: Pending evaluation. Version 2: Lecture, demonstration, computer-assisted instruction, and laboratory exercises on solid-state devices, and circuits, communications systems, analog and digital electronics, and 8-bit microcomputer hardware and software including I/O devices. Version 3: Lectures, laboratory, demonstration, and performance exercises on electronic warfare/intercept tactical systems repair.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in AC and DC circuits, 3 in digital logic, and 3 in analog communications (7/91); in the upper-division baccalaureate category, 3 in operational amplifiers and applications and 3 in introduction to microcomputers (7/91). Version 3: In the vocational certificate category, 4 semester hours in communications laboratory and 1 in PACE solder laboratory (5/87); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity/electronics (AC/DC theory), 4 in solid state circuit analysis, 4 in digital logic, and 3 in microprocessor fundamentals (5/87).

Related Occupations: 33T.

AR-1715-0723

1. TACTICAL SYSTEMS REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)

2. ELECTRONIC WARFARE (EW)/INTERCEPT
TACTICAL SYSTEMS REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: Version 1: 102-33T30. Version 2: 102-33T30.

Location: Intelligence School, Ft. Devens, MA.

Length: Version 1: (668-671), 18-19 weeks. Version 2: 17 weeks (617 hours).

Exhibit Dates: Version 1: 1/91-3/94. Version 2: 1/90-12/90.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to teach and supervise selected enlisted personnel in state-of-the-art troubleshooting and alignment techniques associated with electronic warfare intercept systems. Version 2: Upon completion of the course, the student will be able to teach and supervise selected enlisted personnel in state-of-the-art troubleshooting and alignment techniques associated with electronic warfare intercept systems.

Instruction: Version 1: Lectures, demonstrations and practical exercises in counseling, personnel supervision, operations management, modulation techniques and electronic equipment and maintenance troubleshooting. Version 2: Topics include military safety, map reading, first aid practices, counseling, personnel supervision, operations management, report writing, electronic troubleshooting, communication systems, and electronic maintenance practices.

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in electronics systems troubleshooting and maintenance (6/91); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic communications and 2 in personnel management. See AR-1406-0090 for common core credit (6/91). Version 2: In the vocational certificate category, 2 semester hours in map reading and 3 in advanced electronic maintenance (5/87); in the lower-division baccalaureate/associate degree category, 4 semester hours in communication systems, 5 in electronic troubleshooting, and 2 in personnel supervision. See AR-1406-0090 for common core credit (5/87).

Related Occupations: 33T.

AR-1715-0726

1. NONCOMMUNICATIONS INTERCEPTOR/ANALYST
BASIC NONCOMMISSIONED OFFICER (NCO)
2. ELECTRONIC WARFARE (EW)/SIGNAL
INTELLIGENCE (SIGINT)
NONCOMMUNICATIONS INTERCEPTOR
ANALYST BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: Version 1: 233-98J30. Version 2: 233-98J30.

Location: Intelligence School, Ft. Devens, MA.

Length: Version 1: 9 weeks (328 hours). Version 2: 12 weeks (448 hours).

Exhibit Dates: Version 1: 1/91-3/94. Version 2: 1/90-12/90.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to supervise and manage personnel in the interpretation of electronic signals including the preparation of reports and analysis of technical data. Version 2: Upon completion of the course, the student will be able to supervise and manage personnel in the interception of electro-optic

signals including the preparation of reports, selection of operations sites, and the interpretation and analysis of technical data and reports, be familiar with basic radar operating principles, radio wave propagation and reception.

Instruction: *Version 1:* Lectures, demonstrations, and performance exercises in office practice, personnel supervision, report generation, and equipment operation. *Version 2:* Instruction includes lectures, demonstrations, and performance exercises in office practice, personnel supervision, report preparation, map reading, radar systems and theory and radar signal analysis.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel management. See AR-1406-0090 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in office management procedures and 2 in introduction to radar systems (5/87).

AR-1715-0728

1. VOICE INTERCEPTOR BASIC NONCOMMISSIONED OFFICER (NCO)
2. ELECTRONIC WARFARE (EW) SIGNALS INTELLIGENCE (SIGINT) VOICE INTERCEPTOR BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 232-98G3LXX. *Version 2:* 232-98G3LXX.

Location: Intelligence School, Ft. Devens, MA.

Length: *Version 1:* 9 weeks (327 hours). *Version 2:* (490), 13-14 weeks.

Exhibit Dates: *Version 1:* 10/91-3/94. *Version 2:* 1/90-9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to supervise and manage voice intercept operation and processing activities for cryptologic and electronic warfare operations. *Version 2:* Upon completion of the course, the student will be able to manage voice signal collection and processing activities, perform analysis of non-clear and non-voice signals in a specific foreign language, operate equipment to collect and record specific language radio transmission, assume operations management and supervisory responsibilities in voice signal interception.

Instruction: *Version 1:* Lectures and experiential exercises in supervision, planning and management techniques. *Version 2:* Lectures, audio-visual presentations, case studies, seminars and performance exercises in personnel management, office management procedures, supervision techniques in voice signal collection, and foreign language transcription capability.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel management. See AR-1406-0090 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in operations management, supervision of maintenance management personnel and 1 in office management procedures (5/87).

Related Occupations: 98G.

AR-1715-0729

TELEMETRY COLLECTION OPERATIONS
(Foreign Instrumentation Signals External Analysis)

Course Number: 233-ASIJ1.

Location: Intelligence School, Ft. Devens, MA.

Length: 8-12 weeks (299-410 hours).

Exhibit Dates: 1/90-3/94.

Learning Outcomes: Upon completion of the course, the student will be able to identify missile and earth satellite vehicle designs, components, functions, and capabilities by the analysis of telemetry signals, and use assorted reporting techniques.

Instruction: Lectures, audio-visual presentations, and performance exercises in missile identification, knowledge of earth satellite vehicle characteristics, and reporting procedures involving signal analysis.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (10/93).

AR-1715-0730

QUICKLOOK 2 OPERATOR

Course Number: 233-F8.

Location: Intelligence School, Ft. Devens, MA.

Length: 4 weeks (135-136 hours).

Exhibit Dates: 1/90-3/94.

Learning Outcomes: Upon completion of the course, the student will be able to operate an automated data processing terminal to build files and generate reports, initialize the system, process and edit the data, and prepare reports.

Instruction: Lectures, demonstrations, and hands-on training in file preparation, file management, preparation of mission files and reports.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in computer familiarization (3/88).

AR-1715-0731

TELEMETRY INTERNALS ANALYSIS

Course Number: 233-ASIZ7.

Location: Intelligence School, Ft. Devens, MA.

Length: 5-6 weeks (200-208 hours).

Exhibit Dates: 1/90-6/91.

Learning Outcomes: Upon completion of the course, the student will be able to identify missile and earth satellite vehicle design, components, function and capabilities by the analysis of telemetry signals, and use assorted reporting techniques.

Instruction: Lectures, audio-visual presentations, and performance exercises in missile identification, earth satellite vehicles and reporting procedures involving signal analysis.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (5/87).

AR-1715-0733

AN/TSQ-133 SPECIAL PURPOSE RECEIVING SYSTEM (TRACECHAIN MAINTENANCE)
(Tracechain AN/FSQ-133 Special Purpose Receiving System Maintenance)

Course Number: 102-F61

Location: Intelligence School, Ft. Devens, MA; Field Station, Cp. Humphries, Korea.

Length: 14-19 weeks (514-712 hours).

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to maintain

test and troubleshoot the AN/FSQ-133 Special Purpose Receiving System (Tracechain) utilizing standard and specialized software routines to locate faults and identify lowest replaceable units.

Instruction: Instruction in the operation, maintenance, troubleshooting, and repair of the PDP11/73 with VCO receivers, spectrum controlled 64KB command link. Tracechain switch matrix using RTOSS with application/diagnostic software.

Credit Recommendation: In the vocational certificate category, 6 semester hours in computer systems troubleshooting and repair (10/91); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer systems maintenance (10/91).

AR-1715-0734

1. SIGNALS INTELLIGENCE ANALYST BASIC NONCOMMISSIONED OFFICER (NCO)
2. ELECTRONIC WARFARE (EW)/SIGNALS INTELLIGENCE (SIGINT) ANALYST BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 232-98C30. *Version 2:* 232-98C30.

Location: Security School, Ft. Devens, MA.

Length: *Version 1:* 9 weeks (326 hours). *Version 2:* 10-14 weeks (379-502 hours).

Exhibit Dates: *Version 1:* 1/91-3/94. *Version 2:* 1/90-12/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to read, construct, and use maps; prepare technical reports; recover encryption systems; perform critical mode analysis; perform quality control on product reports; and manage data bases. *Version 2:* Upon completion of the course, the student will be able to read, construct, and use maps; prepare technical reports; recover encryption systems; perform critical mode analysis; perform quality control on product reports; and manage data bases.

Instruction: *Version 1:* Instructions and exercises in map reading, technical report preparation, quality control on product reports, encryption system relocation and recovery, and data base management. *Version 2:* Instructions and exercises in map reading, technical report preparation, quality control on product reports, encryption system relocation and recovery, and data base management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel management. See AR-1406-0090 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in office management procedures and 1 in microbased applications (10/88).

Related Occupations: 98C.

AR-1715-0737

EQUIPMENT OPERATION/MAINTENANCE TEST SET,
GUIDED MISSILE SYSTEM (TOW-
GROUND)

Course Number: 121-ASIJ9(RC).

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 2 weeks (72 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course, the student will be able to operate, test, troubleshoot, and repair a guided missile test set.

Instruction: Lectures and practical exercises on the test set.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (4/88).

AR-1715-0738

HAWK CONTINUOUS WAVE (CW) RADAR REPAIRER

Course Number: 104-24K10

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 29-33 weeks (1152-1180 hours)

Exhibit Dates: 1/90-1/96

Learning Outcomes: Upon completion of the course, the student will be able to solve series/parallel resistive networks, and use test equipment to measure these quantities; apply the concepts of AC electricity to capacitors and resistors; understand and analyze the operation of transistors, amplifiers, power supplies, oscillators, voltage regulators, and nonlinear transistor circuits; use binary, hexadecimal, and octal numbers; analyze circuits containing logic gates, counters, registers, adders, encoders, decoders, multiplexers, flip-flops, and analog/digital converters; understand and apply the principles of computer organization and microprocessors including register structure, memory, I/O, and addressing; write simple assembly language programs; use standard laboratory equipment to measure and test analog and digital circuits and systems; measure and operate basic microwave devices; troubleshoot and repair a complex military radar system.

Instruction: Theory and practical exercises in the fundamentals of AC/DC circuits, transistor circuits, digital electronics, computers, microprocessors, and microwaves. Includes soldering techniques and detailed troubleshooting and repair of a complex military radar system.

Credit Recommendation: In the vocational certificate category, 2 semester hours in soldering techniques (10/89); in the lower-division baccalaureate/associate degree category, 2 semester hours in DC circuits, 1 in AC circuits, 5 in solid state circuits, 1 in vacuum tube electronics, 3 in digital principles, 3 in microprocessors, 3 in computer systems and organization, 1 in radar systems, and 1 in electronic systems troubleshooting and maintenance (10/89).

Related Occupations: 24K.

AR-1715-0739

HAWK FIRE CONTROL REPAIRER

Course Number: 104-24H10.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 51 weeks (1854 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course, the student will be able to understand principles of DC/AC circuits including Ohm's law, series/parallel circuits, voltage dividers and resonance; understand basic behavior of solid state devices such as transistors and zener diodes, and circuits such as RC-coupled amplifiers, oscillators, multivibrators and power supplies; will be able to use typical test equipment in troubleshooting; understand basics of digital computers including binary, octal and hex arithmetic, AND/OR gates, flip-flops, counters, registers, arithmetic units, and A/D converter; explain I/O principles and use

of typical memory devices; understand principles of stored-program computer operations; explain operation of sweep generators, limiters, video amplifier and voltage regulator using both solid state devices and vacuum tubes; repair electronic equipment using approved soldering tools and techniques on chassis, printed circuit board, and cables; understand and operate microprocessor-based equipment using assembly language programming; understand principles of troubleshooting using logic probes and signature analyzer; troubleshoot and repair complex military equipment.

Instruction: Lectures and laboratory exercises including computer-directed lessons and tests. Detailed studies involving maintenance of complex military radar equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in soldering techniques (4/88), in the lower-division baccalaureate/associate degree category, 2 semester hours in DC circuits, 1 in AC circuits, 4 in solid state devices, 1 in vacuum tube principles, 3 in digital principles, 3 in computer systems and organization, 3 in electronic systems troubleshooting and maintenance, and 3 in microprocessors (4/88).

Related Occupations: 24H.

AR-1715-0740

HAWK LAUNCHER AND MECHANICAL SYSTEMS REPAIRER BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 121-24L30.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 17-18 weeks (630-700 hours).

Exhibit Dates: 1/90-3/90.

Learning Outcomes: Upon completion of the course, the student will understand the operation of digital computers and computer based signal processing systems and be able to troubleshoot computer and electronic systems to the component and module level.

Instruction: Includes lectures, demonstrations, and performance exercises in digital logic devices, logic circuits, computer organization, computer programming and troubleshooting of computers and computer based signal processing systems and electronic signal processing system troubleshooting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer organization and operation, 3 in electronic systems troubleshooting, and 3 in computer systems troubleshooting (8/91).

Related Occupations: 24L.

AR-1715-0741

HAWK FIRE CONTROL REPAIRER BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: Version 1: 104-24H30. Version 2: 104-24H30.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: Version 1: 12-13 weeks (463 hours). Version 2: 11-12 weeks (430-455 hours).

Exhibit Dates: Version 1: 4/90-1/96. Version 2: 1/90-3/90.

Learning Outcomes: Version 1: Upon completion of the course, the student will understand the operation of a radar based electronic signal processing system and will be able to

troubleshoot linear electronic systems to the module and component level. Version 2: Upon completion of the course, the student will understand and be able to apply the following computer concepts to microprocessor-based systems, including microprocessors, address decoding, memory, instruction sets, software and troubleshooting. The student will be able to troubleshoot and repair a complex military fire control system.

Instruction: Version 1: Includes lectures, demonstrations, and practical exercises in electronic signal processing systems and CW radar systems troubleshooting, electronic signal processing systems, and CW radar systems. Version 2: Theory and practical exercises in the fundamentals of microprocessors and microprocessor-based computer systems. Includes detailed study of a complex military missile control system.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic system troubleshooting and 3 in CW radar system organization. See AR-1406-0090 for common core credit (8/91). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in microprocessors and 3 in electronic systems troubleshooting and maintenance. See AR-1406-0090 for common core credit (4/88).

Related Occupations: 24H.

AR-1715-0742

1. HAWK FIELD MAINTENANCE EQUIPMENT/PULSE ACQUISITION RADAR REPAIRER BASIC NONCOMMISSIONED OFFICER (NCO)
2. HAWK PULSE RADAR REPAIRER BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: Version 1: 104-24J30. Version 2: 104-24J30.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: Version 1: 17-18 weeks (670 hours). Version 2: 19 weeks (696-725 hours).

Exhibit Dates: Version 1: 4/90-1/96. Version 2: 1/90-3/90.

Learning Outcomes: Version 1: Upon completion of the course, the student will understand logic devices, circuits, and the organization and operation of digital computer CPUs and systems; write, execute, and debug assembly language programs; demonstrate troubleshooting of computer based system to the module and component level; and understand the operation and troubleshooting of a CW radar based signal processing system. Version 2: Upon completion of the course, the student will understand and be able to apply computer concepts to microprocessor-based systems, including microprocessors, address decoding, memory, instruction sets, software, and troubleshooting. The student will be able to troubleshoot and repair a complex military radar system.

Instruction: Version 1: Includes lectures, demonstrations, and performance exercises in digital logic devices, logic circuits, computer organization, computer programming, troubleshooting of computers and computer-based signal processing systems, CW radar-based systems and troubleshooting of CW radar systems. Version 2: Theory and practical exercises in the fundamentals of microprocessors and microprocessor-based computer systems.

Detailed study of a complex military missile control system is included.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in computer organization and operation, 3 in computer system troubleshooting, 3 in electronic systems troubleshooting, and 3 in CW radar system organization. See AR-1406-0090 for common core credit (8/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in microprocessors and 3 in electronic systems troubleshooting and maintenance. See AR-1406-0090 for common core credit (9/88).

Related Occupations: 24J.

AR-1715-0743

HAWK CONTINUOUS WAVE (CW) RADAR
REPAIRER BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: *Version 1:* 104-24K30.
Version 2: 104-24K30.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 15-16 weeks (593 hours). *Version 2:* 15 weeks (551-580 hours).

Exhibit Dates: *Version 1:* 4/90-1/96. *Version 2:* 1/90-3/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to understand and apply the following computer concepts to microprocessor-based systems: microprocessors, address decoding, memory, instruction sets, software and troubleshooting. The student will be able to troubleshoot and repair a complex military missile control system. *Version 2:* Upon completion of the course, the student will be able to understand and apply the following computer concepts to microprocessor-based systems: microprocessors, address decoding, memory, instruction sets, software and troubleshooting. The student will be able to troubleshoot and repair a complex military missile control system.

Instruction: *Version 1:* Theory and practical exercises in the fundamentals of microprocessors and microprocessor-based computer systems. Detailed study of a complex military missile control system. *Version 2:* Theory and practical exercises in the fundamentals of microprocessors and microprocessor-based computer systems. Detailed study of a complex military missile control system.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and 3 in computer system troubleshooting. See AR-1406-0090 for common core credit (8/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in microprocessors and 3 in electronic systems troubleshooting and maintenance. See AR-1406-0090 for common core credit (9/88).

Related Occupations: 24K.

AR-1715-0744

HAWK PULSE RADAR REPAIRER TRANSITION

Course Number: 104-24J10/20/30-T.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 8-9 weeks (308 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course the student will be able to identify components and major functional blocks by use of schematics and manuals; and perform service checks and repairs on complex military electronic equipment using specialized test equipment.

Instruction: Lectures and practical exercises involving specific military equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems troubleshooting and maintenance (4/88).

Related Occupations: 24J.

AR-1715-0745

HAWK FIELD MAINTENANCE EQUIPMENT/PULSE
ACQUISITION RADAR REPAIRER

Course Number: 104-24J10.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 46 weeks (1669 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course, the student will understand principles of DC/AC circuits including Ohm's law, series/parallel circuits, voltage dividers and resonance; understand basic behavior of solid state devices such as bipolar transistors, field-effect transistors, and zener diodes, and circuits such as RC-coupled amplifier, oscillators, multivibrators, and power supplies; will be able to use typical test equipment in troubleshooting; understand the basics of digital computers, including binary, octal, and hexadecimal arithmetic units, and analog/digital converters; explain I/O principles and use of typical memory devices; understand principles of stored-program computer operation; explain operation of sweep generators, limiters, video amplifiers, and voltage regulators using both solid state and vacuum tubes; repair electronic equipment using approved soldering tools and techniques on chassis, printed boards, and cables. Student will also operate, maintain, and troubleshoot electronic systems and radar based missile fire control systems.

Instruction: Lecture and laboratory instruction on basic electricity, solid state devices and circuits, soldering techniques, basic computer operation, radar systems, and signal processing equipment.

Credit Recommendation: In the vocational certificate category, 1 semester hour in soldering techniques (8/91); in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to computer operation, 3 in basic electricity, 3 in solid state devices and circuits, 3 in troubleshooting electronic systems, and 3 in troubleshooting radar systems (8/91).

Related Occupations: 24J.

AR-1715-0746

1. PATRIOT SYSTEM REPAIRER PHASES 1 AND 2
2. INTERMEDIATE MAINTENANCE PATRIOT MISSILE SYSTEM PHASES 1 AND 2

Course Number: *Version 1:* 632-27X2/3/4.
Version 2: 632-ASIT5.

Location: *Version 1:* Phase 1, Ordnance, Missile and Munitions School, Redstone Arsenal, AL; Phase 2, Missile and Munitions School, Ft. Bliss, TX. *Version 2:* Ordnance, Missile and Munitions School, Redstone Arse-

nal, AL; Air Defense Artillery School, Ft. Bliss, TX.

Length: *Version 1:* Phase 1, 19-20 weeks (698 hours); Phase 2, 38-39 weeks (1378 hours). *Version 2:* Phase 1, 19-20 weeks (694 hours); Phase 2, 40 weeks (1440 hours).

Exhibit Dates: *Version 1:* 6/90-Present.
Version 2: 1/90-5/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to operate, maintain, troubleshoot and repair a computer controlled radar guided missile systems and associated power generation/distribution systems. In addition, the student will be able to apply Ohm's law to solve series and parallel resistive circuits; use test equipment to measure DC circuit quantities; understand the concepts of AC electricity and apply these concepts to the circuit behavior of inductors, capacitors and combinations of resistors, inductors, and capacitors; use test equipment to generate and measure AC quantities; understand the behavior of BJT and FET transistor devices; and the operation of amplifiers, power supplies, oscillators, and nonlinear circuits containing these devices; apply standard soldering and wire-wrap repair techniques; understand the concepts of binary, octal, and hexadecimal numbers, Boolean AND, OR, NOR, XOR operators, and flip-flops; analyze the operation of digital circuits including decoders, encoders, registers, counters, and D/A, A/D converters; understand the operation of digital computers to the ALU and control register level; understand the operation of microprocessor-based computers to the subsystem and component level; write and debug assembly language programs and apply standard diagnostic software and hardware techniques to find faults at the system and component level; understand the basic operation of microwave devices and systems; maintain, operate and troubleshoot a computer-based weapon system and associated radar systems.

Version 2: Upon completion of the course, the student will be able to apply Ohm's law to solve series and parallel resistive circuits; use test equipment to measure DC circuit quantities; understand the concepts of AC electricity and apply these concepts to the circuit behavior of inductors, capacitors and combinations of resistors, inductors, and capacitors; use test equipment to generate and measure AC quantities; understand the behavior of BJT and FET transistor devices, and the operation of amplifiers, power supplies, oscillators, and nonlinear circuits containing these devices; apply standard soldering and wire-wrap repair techniques; understand the concepts of binary, octal, and hexadecimal numbers, Boolean AND, OR, NOR, XOR operators, and flip-flops; analyze the operation of digital circuits including decoders, encoders, registers, counters, and D/A, A/D converters; understand the operation of digital computers to the ALU and control register level; understand the operation of microprocessor-based computers to the subsystem and component level; write and debug assembly language programs and apply standard diagnostic software and hardware techniques to find faults at the system and component level; understand the basic operation of microwave devices and systems; maintain, operate and troubleshoot a computer-based weapon system and associated radar systems.

Instruction: *Version 1:* Lectures, demonstrations, and practical exercises on troubleshooting and repair to the module level of

computer, radar, signal processing, and associated interfaces. *Version 1:* Lectures and simulated problems on complex military computer-based and radar-based systems. *Version 2:* Lectures and simulation exercises. Field exercises utilize simulated problems on complex military computer- and radar-based systems. Course is for enlisted personnel.

Credit Recommendation: *Version 1:* In the vocational certificate category, for Phase I, 1 semester hour in soldering techniques and 1 in wire wrap techniques (8/91); in the lower-division baccalaureate/associate degree category, for Phase I, 3 semester hours in basic electronics, 5 in solid state devices and circuits, and 3 in computer organization and operation; for Phase 2, 3 semester hours in radar system troubleshooting, 3 in computer system troubleshooting, and 3 in electronic systems troubleshooting (8/91). *Version 2:* In the vocational certificate category, for Phase I, 2 semester hours in solder and wirewrap techniques (4/88); in the lower-division baccalaureate/associate degree category, 2 semester hours in DC circuits, 1 in AC circuits, 4 in solid state electronics, 3 in digital principles, 3 in computer systems and organization, and 4 in microprocessors. For Phase II, in the lower-division baccalaureate/associate degree category, 9 semester hours in computer systems troubleshooting and maintenance and 2 in radar systems (4/88).

AR-1715-0747

LANCE REPAIRER BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 121-27L30.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 7-8 weeks (277 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course, the student will be able to use binary, hexadecimal, and octal numbers; analyze circuits containing logic gates, counters, registers, adders, encoders, decoders, multiplexers, flip-flops and analog/digital converters; perform precision soldering; and operate a missile maintenance unit.

Instruction: Lectures and practical exercises in digital electronics, soldering, and operation of a missile maintenance unit.

Credit Recommendation: In the vocational certificate category, 1 semester hour in soldering techniques (10/88); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronic systems troubleshooting and maintenance and 3 in digital principles. See AR-1406-0090 for common core credit (10/88).

Related Occupations: 27L.

AR-1715-0748

LAND COMBAT SUPPORT SYSTEM TEST SPECIALIST

Course Number: 121-27B10.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 31 weeks (1154 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to apply Ohm's law to the solution of series and parallel resistive circuits; use test equipment to measure DC circuit quantities; understand the concepts of AC electricity and apply these concepts to the circuit behavior of inductors, capacitors,

and combinations of resistors, inductors, capacitors; use test equipment to generate and measure AC quantities; understand the behavior of BJT and FET transistor devices; and the operation of amplifiers, power supplies, oscillators; and nonlinear circuits containing these devices; understand the concepts of binary, octal, and hexadecimal numbers, Boolean AND, OR, NOR and XOR operators and flip-flops; understand the operation of counters, encoders, decoders, shift registers, A/D and D/A circuits; test, maintain, and repair electronic test sets, assemblies, and subassemblies which support various weapon systems.

Instruction: Lectures and practical exercises in DC/AC electricity, semiconductor devices and digital circuit fundamentals. Course includes exercises in Dragon, Lance, Shillelagh, and TOW missile systems. Includes soldering.

Credit Recommendation: In the vocational certificate category, 1 semester hour in soldering techniques (4/88); in the lower-division baccalaureate/associate degree category, 2 semester hours in DC circuits, 1 in AC circuits, 3 in digital principles, 4 in solid state electronics, and 3 in electronic systems troubleshooting and maintenance (4/88).

Related Occupations: 27B.

AR-1715-0749

MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)
REPAIRER BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 121-27M30.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 7-8 weeks (273-277 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course, the student will be able to understand the concepts of binary, octal, and hexadecimal numbers, Boolean functions, and the realization of these functions by gates and flip-flops; analyze the operation of encoders, decoders, registers, arithmetic units and A/D, D/A converters; apply standard soldering procedures.

Instruction: Lectures and practical exercises in digital logic devices and circuits. Practice on basic soldering techniques.

Credit Recommendation: In the vocational certificate category, 1 semester hour in soldering techniques (4/88); in the lower-division baccalaureate/associate degree category, 3 semester hours in digital principles. See AR-1406-0090 for common core credit (4/88).

Related Occupations: 27M.

AR-1715-0750

1. NUCLEAR WEAPONS TECHNICIAN WARRANT OFFICER TECHNICAL/TACTICAL CERTIFICATION
2. NUCLEAR WEAPONS TECHNICIAN WARRANT OFFICER TECHNICAL AND TACTICAL CERTIFICATION

Course Number: *Version 1:* 4E-911A. *Version 2:* 4E-911A.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 6-7 weeks (228 hours). *Version 2:* 19 weeks (688 hours).

Exhibit Dates: *Version 1:* 6/91-1/96. *Version 2:* 1/90-5/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to conduct emergency inspection procedures, battle damage assessment and repair procedures, prefire and cancelled fire procedures that pertain to nuclear weapons, and calibration of torque wrenches. *Version 2:* Upon completion of the course, the student will be able to identify prefire and cancelled fire procedures pertaining to nuclear weapons, calibrate torque wrenches, calibrate, troubleshoot, and repair nuclear weapons test equipment, and conduct battle damage assessment and repair. Course includes welding.

Instruction: *Version 1:* This course covers nuclear weapons topics to include calibration and inspection of nuclear weapons and associated equipment. *Version 2:* Lectures and practical exercises cover nuclear weapons operations.

Credit Recommendation: *Version 1:* Credit is not recommended because of the specialized nature of the course (8/91). *Version 2:* In the vocational certificate category, 1 semester hour in soldering techniques (8/91); in the lower-division baccalaureate/associate degree category, 2 semester hours in DC circuits and 1 in AC circuits (8/91).

Related Occupations: 260A.

AR-1715-0751

PERSHING ELECTRONICS REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 121-21L30.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 10 weeks (375 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course, the student will understand the concepts of binary, octal, and hexadecimal numbers, Boolean operators, and the realization of these functions in gates and flip-flops; analyze encoders, decoders, registers, A/D and D/A converters; understand the operation of digital computers to the ALU register level; write and debug machine language programs for computers and microprocessors; analyze malfunctions of computer circuits and systems. Course includes a common core of leadership subjects, see AR-1406-0090.

Instruction: Lectures demonstrations and practical exercises on the subject matter.

Credit Recommendation: In the vocational certificate category, 1 semester hour in soldering techniques (4/88); in the lower-division baccalaureate/associate degree category, 3 semester hours in digital principles, 3 in computer systems and organization, and 3 in microprocessors. See AR-1406-0090 for common core credit (4/88).

Related Occupations: 21L.

AR-1715-0752

PERSHING ELECTRONICS REPAIRER

Course Number: 121-21L10.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 32-33 weeks (1185 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course the student will be able to apply Ohm's law to the solution of series and parallel resistive networks; use test equipment to measure DC circuit quantities; understand the concepts of AC electricity and apply these concepts

to the circuit behavior of inductors, capacitors, and combinations of resistors, inductors, and capacitors; use test equipment to generate and measure AC quantities; understand the behavior of BJT and FET transistor devices, and the operation of amplifiers, power supplies, oscillators, and nonlinear circuits containing these devices; use binary, octal, and hexadecimal numbers to analyze circuits containing combinational gates and flip-flops including decoders, encoders, registers, counters, and A/D, D/A converters; test, maintain, and repair electronic test sets, assemblies, and subassemblies which support the Pershing missile system.

Instruction: Lectures and practical exercises in Pershing missile electronic assemblies operation, maintenance and repair, including electronic fundamentals, missile electronics, electronic equipment maintenance, safety, portable test equipment, systems analysis, and shop operation. Includes soldering.

Credit Recommendation: In the vocational certificate category, 2 semester hours in soldering techniques (4/88); in the lower-division baccalaureate/associate degree category, 2 semester hours in DC circuits, 1 in AC circuits, 4 in solid state electronics, 3 in digital principles, and 3 in electronic systems troubleshooting and maintenance (4/88).

Related Occupations: 21L.

AR-1715-0753

PHASE 1 AND PHASE 2 PATRIOT SYSTEM
INTERMEDIATE MAINTENANCE TECHNICIAN

Course Number: 4F-F17.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL; Air Defense Artillery School, Ft. Bliss, TX.

Length: Phase 1, 13-14 weeks (496 hours); Phase 2, 37-38 weeks (1357 hours).

Exhibit Dates: 1/90-9/91.

Learning Outcomes: Upon completion of the course, the student will be able to understand digital principles including number systems, logic gates, registers, counters, and logic analysis; comprehend behavior of complex electronic devices and techniques such as digital signal processor, fiber optics, and time domain reflectometry; repair electronic equipment using approved soldering techniques and wire-wrap procedures; understand computer system organization including flow charts, instruction sets, machine language and peripherals; troubleshoot and repair faults in complex digital computer system; operate complex test equipment such as logic analyzer, signature analyzer, and spectrum analyzer; operate, troubleshoot and repair microwave communication and radar equipment.

Instruction: Lectures, laboratory exercises and field exercise utilizing simulated problems on complex military computer equipment. Course is for warrant officers.

Credit Recommendation: In the vocational certificate category, for phase 1, 2 semester hours in soldering techniques (4/88); in the lower-division baccalaureate/associate degree category, 3 semester hours in digital principles, 3 in computer systems and organization, and 4 in microprocessors; for phase 2, in the lower-division baccalaureate/associate degree category, 9 semester hours in computer systems troubleshooting and maintenance and 2 in radar systems (4/88).

AR-1715-0754

TOW2 REPAIRER TRANSITION

Course Number: 4F-F14/121-F29.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 2-3 weeks (86-87 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course, the student will be able to test, troubleshoot and repair a military weapon system.

Instruction: Classroom and practical exercises on a specific weapon system.

Credit Recommendation: Credit is not recommended because of the limited, technical, nature of the course (4/88).

AR-1715-0755

TOW/Dragon REPAIRER

Course Number: 121-27E10-RC.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 5 weeks (380 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will understand basic behavior of electricity and safety considerations; comprehend characteristics of components, including resistors, capacitors, inductances, diodes, and transformers; troubleshoot and repair military electronics equipment.

Instruction: Home study of electronics topics. Resident study of military-specific equipment.

Credit Recommendation: In the vocational certificate category, 1 semester hour in fundamentals of electricity (4/88).

Related Occupations: 27E.

AR-1715-0756

VULCAN REPAIRER BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: 121-27F30.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 11 weeks (399-421 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course, the student will understand concepts of microprocessor software and hardware including number systems, address decoding, and use of memory and peripherals; perform troubleshooting and maintenance on complex military electronics equipment.

Learning Outcomes: Lectures and practical exercises involving typical microprocessor equipment. Includes soldering.

Credit Recommendation: In the vocational certificate category, 1 semester hour in soldering techniques (4/88); in the lower-division baccalaureate/associate degree category, 2 semester hours in microprocessors and 3 in electronic systems troubleshooting and maintenance. See AR-1406-0090 for common core credit (4/88).

Related Occupations: 27F.

AR-1715-0757

VULCAN REPAIRER TRANSITION

Course Number: 4F-F16/121-F30.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 6 weeks (216 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course, the student will be able to operate and maintain a military gun system.

Instruction: Lectures and practical exercises on operation and maintenance of a military gun system.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (4/88).

AR-1715-0758

VULCAN REPAIRER

Course Number: 121-27F10.

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL.

Length: 32-33 weeks (1233 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course, the student will be able to solve series/parallel resistive circuits; apply the concepts of AC electricity to the circuit behavior of inductors, capacitors, and resistors; understand and analyze the operation of transistors, amplifiers, power supplies, oscillators, voltage regulators, and nonlinear transistor circuits; use binary, octal, and hexadecimal numbers; analyze circuits containing logic gates, counters, registers, adders, encoders, decoders, multiplexers, flip-flops, and analog/digital converters; measure and operate basic microwave devices; use standard laboratory equipment to measure and test analog and digital circuits and systems; troubleshoot and repair a complex military fire control and radar system.

Instruction: Theory and practical exercises in the fundamentals of AC/DC circuits, transistor circuitry, and digital electronics. Includes soldering techniques and detailed troubleshooting and repair of complex military radar and fire control equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in soldering techniques (4/88); in the lower-division baccalaureate/associate degree category, 2 semester hours in DC circuits, 1 in AC circuits, 4 in solid state electronics, 2 in digital principles, 1 in radar systems, and 3 in electronic systems troubleshooting and maintenance (4/88).

Related Occupations: 27F.

AR-1715-0759

MEDICAL EQUIPMENT REPAIRER (UNIT LEVEL)

Course Number: Version 1: 4B-F2/198-91A10. Version 2: 4B/F2/198-35G10-Y-1.

Location: Medical Equipment and Optical School, Aurora, CO.

Length: Version 1: 38 weeks (1480-1567 hours). Version 2: 38 weeks (1480 hours).

Exhibit Dates: Version 1: 11/95-Present. Version 2: 10/90-10/95.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to perform medical equipment maintenance and repair services including the replacement of modules and component parts; repair of printed circuit boards; repair and adjustment using test, measurement, and diagnostic equipment; performance of scheduled preventive maintenance, checks, and services; and performance of calibration, verification, certification, and electrical safety checks. Version 2: Upon completion of the course the student will be able to solder and desolder circuit components, solve resistive series/parallel DC circuits; analyze circuits containing capacitors and inductors; solve series

and parallel resonance circuits, analyze diode and transistor circuits including power amplifiers, operational amplifiers, and oscillators; analyze digital circuits including gates, flip-flops, and counters; troubleshoot and maintain a number of specific pieces of biomedical equipment including special refrigerator, centrifuge, ultrasonic cleaner, sterilizer, blood cell counter, analyzer, blood gas apparatus, coagulation analyzer, spectrophotometer, defibrillator, electrocardiograph, x-ray systems, respirator, and microscope. Student will also be able to identify major human anatomical features and physiological systems.

Instruction: *Version 1:* Theory and practical exercises on AC/DC circuits, solid state electronics, digital electronics, and a wide variety of pieces of biomedical equipment. *Version 2:* Theory and practical exercises on AC/DC circuits, solid state electronics, digital electronics, and a wide variety of pieces of biomedical equipment.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in solid state electronics, 6 in electronic theory, and 10 in basic medical equipment maintenance, troubleshooting, and repair (5/96); in the upper-division baccalaureate category, 6 semester hours in advanced medical equipment maintenance, troubleshooting, and repair (5/96). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in soldering techniques, 3 in DC circuits, 3 in AC circuits, 4 in solid state electronics, 2 in digital principles, 9 in biomedical equipment troubleshooting and maintenance, and 1 in basic anatomy (8/95).

Related Occupations: 35G.

AR-1715-0761

INTERMEDIATE LEVEL MAINTENANCE OF AN/
MSM-105(V)1

Course Number: 198-ASIW3.

Location: Signal School, Ft. Gordon, GA.

Length: 18 weeks (686 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to troubleshoot automatic test systems with the aid of manual fault isolation procedures if the internal self-diagnostic program fails. The student will repair automatic test equipment, printed circuit boards, wiring harnesses and cables.

Instruction: Classroom instruction on various number systems is included. Laboratory simulations are done using trainers for various computer systems. Training includes instruction in the procedures necessary to assure quality.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in DC circuits, 3 in digital principles, 2 in computer systems and organization, 4 in computer troubleshooting and maintenance, and 1 in electronic systems troubleshooting and maintenance (6/88).

AR-1715-0762

RADIO TERMINAL/REPEATER SET OPERATIONS
MAINTENANCE

Course Number: 201-ASIR6.

Location: Signal School, Ft. Gordon, GA.

Length: 4-5 weeks (168 hours).

Exhibit Dates: 1/90-12/91.

Learning Outcomes: Upon completion of the course, the student will be able to install,

operate, troubleshoot, and perform organizational maintenance on line-of-sight radio-terminal, repeater, and the quick erect expandable mast.

Instruction: Classroom and practical exercises on radio-terminal-repeater sets.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/88).

AR-1715-0763

COMMUNICATIONS SECURITY (COMSEC) TSEC/
ST-58 REPAIR

Course Number: 160-F32.

Location: Signal School, Ft. Gordon, GA.

Length: 10-11 weeks (432 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to analyze and troubleshoot digital and microprocessor based circuits as well as have the ability to troubleshoot a specific military computer.

Instruction: Classroom and practical exercises on topics in digital electronics, microprocessors, and the military computer.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in digital principles, 2 in microprocessors, and 3 in computer systems troubleshooting and maintenance (6/88).

AR-1715-0764

FIXED COMMUNICATIONS SECURITY (COMSEC)
EQUIPMENT FULL MAINTENANCE

Course Number: 160-ASIG8.

Location: Signal School, Ft. Gordon, GA.

Length: 6-7 weeks (231 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to explain the basic operation of semiconductors, junction diodes, and bipolar transistors and identify their use in rectifier circuits and voltage regulators; troubleshoot and explain the operation of basic transistor amplifiers, power amplifiers, and operational amplifiers; solder and desolder electronic components to printed circuits boards; and maintain, troubleshoot, and repair a specific military communications system.

Instruction: Instruction is provided in classroom presentations, laboratory exercises, and by troubleshooting and testing communications security equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in soldering techniques (7/89); in the lower-division baccalaureate/associate degree category, 2 semester hours in solid state electronics, 1 in basic electronics laboratory, and 2 in electronic systems troubleshooting and maintenance (7/89).

AR-1715-0767

AN/TYC-39(V) I/O MAINTENANCE (USAF)

Course Number: 150-F14.

Location: Signal School, Ft. Gordon, GA.

Length: 8-9 weeks (320 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to troubleshoot and repair a specific piece of telephone automatic message switching equipment; perform line installation procedures, patch proce-

dures, and data entry, and troubleshoot associated peripheral equipment.

Instruction: Classroom and practical exercises focused on equipment maintenance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (6/88).

AR-1715-0768

AN/TTC-39A O/I MAINTENANCE

Course Number: 150-F13.

Location: Signal School, Ft. Gordon, GA.

Length: 9-10 weeks (360 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to maintain and repair a piece of automatic central office telephone equipment.

Instruction: Instruction is presented by classroom and by practical experience in troubleshooting, testing, and data base entries using the above equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (6/88).

AR-1715-0770

SIGNAL OFFICER ADVANCED

Course Number: 4-11-C22-25C.

Location: Signal School, Ft. Gordon, GA.

Length: 20 weeks (715-724 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will fill a staff position at a signal battalion, brigade, or company level command with emphasis on communications-electronics operations.

Instruction: Lectures in combined arms subjects, including air/land battle doctrine, communications systems planning, management and control, digital and analog engineering operations, and communications interfaces. Military subjects include electronic warfare, NBC defense, leadership, personnel administration, property accounting, training management, force integration, military justice, and tactics and doctrine.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (7/89).

AR-1715-0771

FIXED COMMUNICATION SECURITY (COMSEC)
SUPERVISOR BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: 160-29F30.

Location: Signal School, Ft. Gordon, GA.

Length: 8 weeks (288 hours).

Exhibit Dates: 1/90-12/90.

Learning Outcomes: Upon completion of the course, the student will be able to lead and supervise personnel engaged in the maintenance of communication security equipment.

Instruction: Classroom and practical exercise on topics including leadership, map reading, air-land battle, maintenance management, and shop practice.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (6/89).

Related Occupations: 29F.

AR-1715-0772

FIELD COMMUNICATION SECURITY (COMSEC)
MAINTENANCE SUPERVISOR BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 160-29S30.

Location: Signal School, Ft. Gordon, GA.

Length: 6-8 weeks (230-288 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to lead and supervise personnel engaged in the maintenance of communication security equipment.

Instruction: Classroom and practical exercises on topics including leadership, map reading, air-land battle, maintenance management, and shop practice.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (2/94).

Related Occupations: 29S.

AR-1715-0774

SATELLITE COMMUNICATIONS (SATCOM)
TERMINAL AN/GSC-52(V)

Course Number: *Version 1:* 102-ASIQ7 (P); 102-ASIQ7; 102-ASIQ7 (CT). *Version 2:* 102-ASIQ7 (P); 102-ASIQ7; 102-ASIQ7 (CT).

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 7-8 weeks (280 hours). *Version 2:* 7-8 weeks (273-281 hours).

Exhibit Dates: *Version 1:* 10/93–4/95. *Version 2:* 1/90–9/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to operate and maintain a SATCOM communications terminal including transmitting, receiving, frequency conversion, computer control, computer control subsystems, and fiber optic assemblies. *Version 2:* Upon completion of the course, the student will have an overall knowledge of the satellite communications terminal, its operational characteristics, and necessary preventive maintenance.

Instruction: *Version 1:* Lectures and practical exercises cover the overall design, operation, and preventive maintenance of the SATCOM terminal and fiber optic assemblies. *Version 2:* Lectures and practical exercises cover the overall design, operation, and preventive maintenance of the SATCOM terminal.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in communication system troubleshooting and maintenance and 2 in principles of satellite communication systems (2/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of satellite communication systems (6/89).

Related Occupations: 29Y.

AR-1715-0775

RADIO TERMINAL/REPEATER SET OPERATOR

Course Number: 202-ASIY1 (31M).

Location: Signal School, Ft. Gordon, GA.

Length: 4 weeks (144 hours).

Exhibit Dates: 1/90–12/91.

Learning Outcomes: Upon completion of the course, the student will be able to install, operate, troubleshoot, and perform unit-level maintenance on a radio set.

Instruction: Classroom and practical exercises centered around the specific radio equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronic systems troubleshooting and maintenance (5/90).

AR-1715-0778

AUTOMATIC TELEPHONE CENTRAL AN/TCC-38(V) REPAIR

(Automatic Telephone Central AN/TCC-38 Repair)

Course Number: 622-F29; 622-F22 (36L); 622-ASIP2.

Location: Signal School, Ft. Gordon, GA.

Length: 12 weeks (437-459 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to install and perform general support maintenance on the automatic telephone central office AN/TCC-38(V).

Instruction: Instruction includes classroom and laboratory experience necessary to service the equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (11/89).

AR-1715-0779

SPECIAL ELECTRONIC DEVICES REPAIR

Course Number: 198-39E10.

Location: Signal School, Ft. Gordon, GA.

Length: 25-28 weeks (933-1008 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to repair special electronic devices through general support maintenance. The student will have demonstrated skills in soldering, knowledge of basic DC and AC circuits and components, basic solid state electronics, digital logic and numbering systems, and knowledge of troubleshooting techniques for specialized equipment such as night vision equipment, mine detection, and thermal viewers.

Instruction: Training includes topics in DC/AC circuits, basic electronics, precision soldering, solid state technology, and use of binary, octal, and hexadecimal numbering systems. Laboratory experience with the equipment and troubleshooting techniques are covered.

Credit Recommendation: In the vocational certificate category, 2 semester hours in soldering techniques (8/92); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronic laboratory, 1 in DC circuits, 2 in AC circuits, 2 in digital principles, 3 in solid state electronics, and 3 in electronic systems troubleshooting and maintenance (8/92).

Related Occupations: 39E.

AR-1715-0781

1. SATELLITE COMMUNICATIONS (SATCOM)
SYSTEMS OPERATOR/MAINTAINER

2. SATELLITE COMMUNICATIONS (SATCOM)
SYSTEMS REPAIRER

(Satellite Communications (SATCOM)
Equipment Repairer)

3. SATELLITE COMMUNICATIONS (SATCOM)
SYSTEMS REPAIRER

(Satellite Communications (SATCOM)
Equipment Repairer)

Course Number: *Version 1:* 102-31S10. *Version 2:* 102-29Y10. *Version 3:* 102-29Y10.

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 31 weeks (1140 hours). *Version 2:* 37 weeks (1356 hours). *Version 3:* 18-41 weeks (642-1481 hours).

Exhibit Dates: *Version 1:* 10/94–Present. *Version 2:* 10/91–9/94. *Version 3:* 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to identify series, parallel, and series/parallel resistance circuits and determine values of resistance, voltage, and current in the circuit; recognize the meaning of frequency, period, sine wave, phase shift, inductive reactance, capacitive reactance, and impedance; calculate voltage and currents in transformers; calculate quality factor, bandwidth, and cut off frequencies of resonant circuits; calculate impedances, voltages, and currents in capacitive and inductive AC circuits; explain the basic operation of semiconductor, junction diodes, and transistors and identify their uses in rectifier circuits and voltage regulators; comprehend communication techniques, trace signal path, troubleshoot, and align mobile FM transceivers; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers, and counters; operate, maintain, troubleshoot, and repair satellite earth terminal equipment including digital communication systems, using standard electronic test equipment and spectrum analyzer (using spread spectrum techniques). *Version 2:* Upon completion of the course, the student will be able to identify series, parallel, and series/parallel resistance circuits and determine values of resistance, voltage, and current in the circuit; recognize the meaning of frequency, period, sine wave, phase shift, inductive reactance, capacitive reactance, and impedance; calculate voltage and currents in transformers; calculate quality factor, bandwidth, and cut off frequencies of resonant circuits; calculate impedances, voltages, and currents in capacitive and inductive AC circuits; explain the basic operation of semiconductor, junction diodes, and transistors and identify their uses in rectifier circuits and voltage regulators; comprehend communication techniques, trace signal path, troubleshoot, and align mobile FM transceivers; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers, and counters; operate, maintain, troubleshoot, and repair satellite earth terminal equipment including digital communication systems, using standard electronic test equipment and spectrum analyzer (using spread spectrum techniques). *Version 3:* Upon completion of the course, the student will be able to solve DC series/parallel resistive circuits; calculate RLC AC circuits; calculate transients in RL and RC circuits; analyze transistor circuits including power supplies, voltage regulators, amplifiers, oscillators, and multivibrators; use binary, octal, and hexadecimal numbering systems; analyze digital circuits containing gates, flip-flops, counters, and registers; analyze the circuitry of FM transmitters and receivers; troubleshoot and align FM transmitters and receivers; solder; use common test equipment and read schematics; and troubleshoot and repair several pieces of military satellite communications equipment.

Instruction: *Version 1:* Classroom and laboratory exercises on topics in DC and AC circuits, solid state electronics, digital electronics, FM communications, satellite communications, soldering techniques, theory of operation and troubleshooting methods for satellite communications equipment and devices. This version is pending evaluation. *Version 2:* Classroom and laboratory exercises on topics in DC and AC circuits, solid state electronics, digital electronics, FM communications, soldering techniques, theory of operation and troubleshooting methods for satellite communications equipment and devices. *Version 3:* Classroom and laboratory exercises on topics in DC and AC circuits, solid state electronics, digital electronics, FM communications, soldering techniques, theory of operation and troubleshooting methods for satellite communications equipment and devices.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 2 semester hours in soldering techniques (2/94); in the lower-division baccalaureate/associate degree category, 3 semester hours in DC circuits, 1 in AC circuits, 1 in digital principles, 1 in solid state electronics, 2 in electronic communications, 2 in digital communications, 3 in basic electronics laboratory, and 3 in electronic system troubleshooting and maintenance (2/94). *Version 3:* In the vocational certificate category, 2 semester hours in soldering techniques (6/89); in the lower-division baccalaureate/associate degree category, 1 semester hour in DC circuits, 2 in AC circuits, 2 in digital principles, 3 in solid state electronics, 1 in electronic communications, 3 in basic electronics laboratory, and 3 in electronic systems troubleshooting and maintenance (6/89).

Related Occupations: 29Y; 31S.

AR-1715-0782

TACTICAL SATELLITE/MICROWAVE SYSTEMS
OPERATOR

Course Number: 201-31Q10.

Location: Signal School, Ft. Gordon, GA.

Length: 15-16 weeks (580 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to install, line up, operate, troubleshoot, and perform first-level maintenance and preventive maintenance on tactical, line-of-sight, and tropospheric scatter systems.

Instruction: Lectures, discussions, demonstrations are utilized. Evaluation is by test, operational procedure and maintenance procedure checks.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic system operation and maintenance (2/94).

Related Occupations: 31Q.

AR-1715-0783

1. OH-58D SPECIAL ELECTRONIC
2. OH-58D AVIATION INTERMEDIATE
MAINTENANCE AVIONIC REPAIRER

Course Number: *Version 1:* 102-ASIW5 (68R). *Version 2:* 102-ASIW5 (35R).

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 6 weeks (216 hours). *Version 2:* 3-4 weeks (120 hours).

Exhibit Dates: *Version 1:* 3/93–Present. *Version 2:* 1/90–2/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to operate and use test support system assemblies, do diagnostic testing, troubleshooting, and repair of a computer-controlled helicopter gun system, and maintain associated test equipment. *Version 2:* Upon completion of the course, the student will be able to operate and use test support system assemblies; do diagnostic testing, troubleshooting, and repair of OH-58D mast-mounted sight and control display systems.

Instruction: *Version 1:* Lectures and practical exercises on the mechanical and electronic systems associated with the gunsight. *Version 2:* Instruction is accomplished by classroom and laboratory experiences on the system.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (3/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in electronic systems troubleshooting and maintenance (6/88).

Related Occupations: 68R.

AR-1715-0784

AHIP AVIONIC MECHANIC (OH-58D)

Course Number: *Version 1:* 102-ASIW5 (68N). *Version 2:* 102-ASIW5 (35K).

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 5-6 weeks (206 hours). *Version 2:* 3-4 weeks (128 hours).

Exhibit Dates: *Version 1:* 4/91–Present. *Version 2:* 1/90–3/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to maintain and repair avionic systems that include control/display subsystems, communication systems, doppler/gyro compass systems, radar altimeters, automatic target systems, altitude/heading systems, mast-mounted sight systems, aircraft survivability equipment, and data bus interface. *Version 2:* Upon completion of the course, the student will be able to maintain and repair avionic systems that include control/display subsystems, communication systems, doppler/gyro compass systems, radar altimeters, automatic target systems, altitude/heading systems, and mast-mounted sight systems, interface.

Instruction: *Version 1:* Instruction is accomplished through lectures, computer-aided instruction, unit-level maintenance tasks on avionic systems, and practical exercises. *Version 2:* Instruction is accomplished through lectures, computer-aided instruction, unit-level maintenance tasks on avionic systems, and practical exercises.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in avionic system troubleshooting and maintenance (2/94). *Version 2:* In the vocational certificate category, 2 semester hours in aviation electronics systems (6/88).

AR-1715-0787

AIR TRAFFIC CONTROL SYSTEMS, SUBSYSTEMS,
AND EQUIPMENT REPAIRER
(Tactical Air Traffic Control Systems, Sub-
systems, and Equipment Repairer)

Course Number: *Version 1:* 102-93D10. *Version 2:* 103-93D10; 102-F1.

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 32 weeks (1152 hours). *Version 2:* 27-28 weeks (1077 hours).

Exhibit Dates: *Version 1:* 10/90–Present. *Version 2:* 1/90–9/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to identify series, parallel, and series/parallel circuits and to determine values of resistance, voltage, and current in the circuits; comprehend concepts of alternating current including frequency, phase, and reactance; explain concepts of series and parallel resonance and basics of transformer operation; explain the basic operation of semiconductors, junction diodes, and bipolar transistors and identify their use in rectifier circuits and voltage regulators; troubleshoot and explain the operation of basic transistor amplifiers and operational amplifiers; explain the operation of FETs, SCRs, and UJTs and troubleshoot and explain the operation of sine wave oscillator, multivibrator circuits and Schmitt trigger circuits; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers and counters; explain theory and operation of microprocessor-based computers including the concepts of buses, memory, control signals, and addressing; explain how a microcomputer performs arithmetic and logic operations; use machine language instructions; solder and desolder wire to various types of electronic terminals; solder and desolder electrical wires, cables, and terminals; align, adjust, troubleshoot, and repair specific air traffic control systems. *Version 2:* Upon completion of the course, the student will be able to identify series, parallel, and series/parallel circuits and to determine values of resistance, voltage, and current in the circuits; comprehend concepts of alternating current including frequency, phase, and reactance; explain concepts of series and parallel resonance and basics of transformer operation; explain the basic operation of semiconductors, junction diodes, and bipolar transistors and identify their use in rectifier circuits and voltage regulators; troubleshoot and explain the operation of basic transistor amplifiers and operational amplifiers; explain the operation of FETs, SCRs, and UJTs and troubleshoot and explain the operation of sine wave oscillator, multivibrator circuits and Schmitt trigger circuits; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers and counters; explain theory and operation of microprocessor-based computers including the concepts of buses, memory, control signals, and addressing; explain how a microcomputer performs arithmetic and logic operations; use machine language instructions; solder and desolder wire to various types of electronic terminals; solder and desolder electrical wires, cables, and terminals; align, adjust, troubleshoot, and repair specific air traffic control systems.

Instruction: *Version 1:* Lectures and practical exercises on the air traffic control system and its repair. *Version 2:* Lectures and practical exercises on the air traffic control system and its repair.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in soldering techniques (2/94); in the lower-division baccalaureate/associate degree cate-

gory, 2 semester hours in DC circuits, 1 in AC circuits, 4 in solid state electronics, 3 in basic electronics laboratory, 1 in digital principles, 2 in microprocessors, 3 in electronic systems troubleshooting and maintenance, and 3 in radar systems (2/94). *Version 2:* In the vocational certificate category, 4 semester hours in soldering techniques (6/89); in the lower-division baccalaureate/associate degree category, 1 semester hour in DC circuits, 1 in AC circuits, 3 in solid state electronics, 3 in basic electronics laboratory, 1 in digital principles, 2 in microprocessors, and 3 in electronic systems troubleshooting and maintenance (6/89).

Related Occupations: 93D.

AR-1715-0788

WATCHMATE EQUIPMENT MAINTENANCE TRAINING

Course Number: 102-F59.

Location: Intelligence School, Ft. Devens, MA.

Length: 3-4 weeks (116 hours).

Exhibit Dates: 1/90-3/94.

Learning Outcomes: Upon completion of the course, the student will be able to troubleshoot selected AN/GSQ-223 signal processing subsystem equipment to the line replacement unit level.

Instruction: Lectures and practical exercises in troubleshooting and maintenance of the watchmate system.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics laboratory (9/88).

AR-1715-0789

AN/TSQ-138 TRAILBLAZER OPERATOR

Course Number: 231-F20.

Location: Intelligence School, Ft. Devens, MA.

Length: 2 weeks (70 hours).

Exhibit Dates: 1/90-3/94.

Learning Outcomes: Upon completion of the course, the student will be able to operate the system and perform preventive maintenance on the AN/TSQ-138 Trailblazer.

Instruction: Lectures and practical exercises relating to system set-up, searching techniques, message handling, and antenna testing.

Credit Recommendation: Credit is not recommended due to the limited, specialized content of the course (9/88).

AR-1715-0790

ELECTRONIC PROCESSING AND DISSEMINATION SYSTEM OPERATOR/ANALYST

Course Number: *Version 1:* 3B-ASI9C/233-ASIT4; 233-F13/3B-ASI9C. *Version 2:* 3B-ASI9C/233-ASIT4; 233-F13/3B-ASI9C.

Location: *Version 1:* Intelligence Center and School, Ft. Huachuca, AZ. *Version 2:* Intelligence School, Ft. Devens, MA.

Length: *Version 1:* 9 weeks (331-332 hours). *Version 2:* 8-9 weeks (293-326 hours).

Exhibit Dates: *Version 1:* 10/92-Present. *Version 2:* 1/90-9/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to operate the electronic processing and dissemination system (AN/TSQ-134(V)) and perform operational analysis on the electronic order-of-battle resident data base. *Version 2:* Upon completion of the course, the student will be able to operate the electronic processing and dissemination system (AN/TSQ-134(V)) and perform operational analysis on the electronic order-of-battle resident data base.

Instruction: *Version 1:* Lectures and practical exercises in the electronic processing and dissemination system, preventive maintenance, tactics, operations security, and message formats. *Version 2:* Lectures and practical exercises in the electronic processing and dissemination system, preventive maintenance, tactics, operations security, and message formats.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in computer literacy (10/90).

AR-1715-0791

ORGANIZATIONAL COMMUNICATIONS-ELECTRONICS (C-E) OPERATOR/MECHANICS

Course Number: SIG 9.

Location: Combined Arms Training Center, Bad Toelz, W. Germany.

Length: 3-4 weeks (108-137 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course the student will be able to install and operate communications-electronics systems at the company-sized unit level; perform maintenance on systems; identify capabilities and characteristics of FM radio sets, teletype equipment, switchboards, and security equipment and transmissions; describe antenna types and their radiation patterns; operate radioteletype equipment; install wire lines and telephone equipment; install remoting (radio/telephone) devices; explain maintenance programs and repair part stockage; evaluate the operation of repaired equipment; troubleshoot faulty equipment using multimeter and test set, both for radios and teletypewriters.

Instruction: Conferences and practical exercises, with an emphasis on diagnosis and fault isolation. Major topics include radio fundamentals and equipment, cable/wire systems and equipment, operational techniques and procedures, and maintenance/diagnosis.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics circuitry (11/88); in the lower-division baccalaureate/associate degree category, 1 semester hour in radio and telephone communications systems (11/88).

Related Occupations: 31G; 31V.

AR-1715-0792

INTERMEDIATE LEVEL MAINTENANCE OF THE AN/GRC-106 AND THE MD-522

Course Number: SIG 35 AM.

Location: Combined Arms Training Center, Bad Toelz, W. Germany.

Length: 3 weeks (102 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate test sets, multimeters and counters; set up, operate, troubleshoot and repair radios and modems; explain modes of operation of communication equipment (e.g., duplex vs. one-way reversible); adjust test equipment and radio and modem components.

Instruction: Lectures and practical exercises in analyzing, locating, troubleshooting, and correcting malfunctions in the radio set and the modem.

Credit Recommendation: In the vocational certificate category, 2 semester hour in FM radio alignment (10/88); in the lower-division baccalaureate/associate degree category, 1 semester hour in communications equipment alignment (10/88).

AR-1715-0793

MULTICHANNEL COMMUNICATIONS SYSTEMS

Course Number: SIG 1.

Location: Combined Arms Training Center, Bad Toelz, W. Germany.

Length: 3 weeks (102 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to plot simple radiopath profiles; install and orient the antenna used with multichannel radio equipment; operate multichannel equipment in an electronic warfare environment; install and operate multichannel equipment configurations and components; install and operate specific equipment configurations in 12/24-channel radio, 12/24-channel cable, integrated cable and radio, all in secure mode, for a specific military radio system.

Instruction: Classroom and hands-on instruction in installing, operating, aligning, and performing preventive maintenance on radio communications systems, including receivers, transmitters, and antennas and their components.

Credit Recommendation: In the vocational certificate category, 2 semester hours in multichannel communications systems (10/88).

AR-1715-0794

TACTICAL TELECOMMUNICATIONS CENTER SUPERVISOR

Course Number: SIG 33.

Location: Combined Arms Training Center, Bad Toelz, W. Germany.

Length: 3 weeks (102 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to set up and place teletype into operational state; establish, operate, and maintain radio/teletype communications; supervise the installation and operations of telecommunications center systems; supervise the processing and formatting of telecommunications messages; install encrypting device for message security; identify circuit capabilities for telegraph and teletype; troubleshoot and locate faults in circuits; plan the installation of telecommunications centers.

Instruction: Conference classes and practical exercises in the concepts and technology applied in telecommunications centers. Major subjects include communications center systems and communications center management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in radio and radiotelegraphy and security (10/88).

AR-1715-0795

TACTICAL COMMUNICATIONS OFFICER AND CHIEF

Course Number: SIG 29.

Location: Combined Arms Training Center, Bad Toelz, W. Germany.

Length: 3-4 weeks (106-160 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to plan and supervise the installation of communication systems; wire of radio, or a combined system; supervise the operation and maintenance of communication systems; identify the capability and characteristics of AM/FM radio sets and telephone sets used in tactical communications centers; supervise the establishment of integrated wire/radio nets including use of switchboards, remote devices, and cryptographic devices; describe telegraphic principles, telegraphic equipment and operations; describe multichannel/multiplex systems and functioning; operate radioteletyping equipment; troubleshoot and debug communications systems; explain and describe wave propagation, wave forms, wave fields, and antenna considerations such as harmonic/nonharmonic, types of wave lengths, antenna lengths, and computation of required antenna length.

Instruction: Conference classes, practical exercises, and activities in wire communications, radio communications, multiplexing, integrated wire/radio systems, radioteletyping, and radioteletyping. Aspects of theory and technology are taught throughout.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in radio and telephone communications systems (10/88).

AR-1715-0796

AIR DEFENSE ARTILLERY (ADA) OFFICER
ADVANCED PATRIOT FOLLOW-ON
(Air Defense Artillery (ADA) Officer
Advanced Follow-On Training Patriot
Track)

Course Number: 2F-FOA-F15.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 5 weeks (177-184 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform as an officer in a Patriot missile system unit.

Instruction: Lectures and practical exercises covering topics on the Patriot missile system, including preventive maintenance, deployment, emplacement, communications procedures, and battle tactics.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/93).

AR-1715-0797

1. PATRIOT SYSTEM TECHNICIAN WARRANT
OFFICER BASIC
(Patriot System Technician Warrant Officer
Technical/Tactical Certification)
(Patriot Missile System Technician Warrant
Officer Technical Certification (WOTC)
Phases 1 and 2)
2. PATRIOT SYSTEM TECHNICIAN WARRANT
OFFICER TECHNICAL/TACTICAL
CERTIFICATION
(Patriot Missile System Technician Warrant
Officer Technical Certification (WOTC)
Phases 1 and 2)

Course Number: Version 1: 4F-140E. Version 2: 4B-140E.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: Version 1: 28-29 weeks (1016-1037 hours). Version 2: 10-32 weeks (377-1152 hours).

Exhibit Dates: Version 1: 11/91–Present. Version 2: 1/90–10/91.

Learning Outcomes: Version 1: Upon completion of the course, the student will demonstrate an understanding of and be able to perform operational checks and isolate faults in digital circuits; describe the functional operation and perform organizational maintenance on the Patriot missile system; will describe the organization and operations of a weapons central computer; use diagnostic software to detect and isolate faults in the weapons system and associated radar system. Version 2: Upon completion of the course, the student will (Phase I) demonstrate an understanding of, and be able to perform operational checks and isolate faults in digital circuits; describe the functional operation and perform organizational maintenance on the Patriot missile system; for Phase II: describe the organization and operations of a weapons central computer; use diagnostic software to detect and isolate faults in the weapons system and associated radar system.

Instruction: Version 1: Lectures, demonstrations and practical experience in basic digital circuits and the Patriot missile system. Weapons control computer and radar system are covered. Version 2: Lectures, demonstrations and practical experience (Phase I) in basic digital circuits and the Patriot missile system. In Phase II the weapons control computer and radar system are covered.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in digital circuits, 4 in computer system troubleshooting and maintenance, 3 in radar systems, and 3 in electronic troubleshooting (6/95). Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in digital principles, 1 in computer systems troubleshooting and maintenance, 2 in radar systems, and 1 in electronic systems troubleshooting and maintenance. For Phase II in the lower-division baccalaureate/associate degree category, 3 semester hours in computer systems troubleshooting and maintenance, 1 in computer systems and organization, 2 in radar systems, and 2 in electronic systems troubleshooting and maintenance. If both phases are taken, credit should be added (11/88).

Related Occupations: 140E.

AR-1715-0798

PATRIOT OPERATOR AND SYSTEM MECHANIC

Course Number: 632-24T1/2/3/4-T.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 35-36 weeks (1267 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to use common laboratory instruments and perform electronic laboratory work; explain the operation of solid state devices to include bipolar and FET transistors, diodes, UJTs, and SCRs; analyze solid state circuits including amplifiers, voltage regulators, operational amplifiers, perform conversions between decimal, binary, octal, and hexadecimal number systems; explain the operation and truth table for digital circuit elements including logic gates, flip-flops, counters, regis-

ters, adders, and subtractors; follow systematic troubleshooting procedures.

Instruction: Lectures and practical exercises in the fundamentals of electrical measurements, solid state electronics, power supplies and power distribution, digital and computer fundamentals, operation and maintenance, and radar operation and maintenance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in solid state electronics, 3 in digital principles, 1 in basic electronics laboratory, 1 in industrial electronics, and 3 in electronic systems troubleshooting and maintenance (11/88).

AR-1715-0799

HAWK MASTER MECHANIC

Course Number: Version 1: 121-24R40-A. Version 2: 121-24R40-A.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: Version 1: 13-14 weeks (500 hours). Version 2: 19-20 weeks (730 hours).

Exhibit Dates: Version 1: 3/91–1/93. Version 2: 1/90–2/91.

Learning Outcomes: Version 1: Upon completion of the course, the student will have a solid background in digital electronics up to and including microprocessors. In addition, the graduate will be able to perform preventive and corrective maintenance on Hawk system associated radars with corrective capability to the block level (replaceable units). Version 2: Upon completion of the course, the student will be able to perform conversions between decimal, binary, octal, and hexadecimal numbers; describe the logic functions and circuit operation of logic gates, flip-flops, counters, registers, and adders; and troubleshoot and repair two military radar systems.

Instruction: Version 1: Instruction in this course includes both lecture and hands-on laboratory experiences. Some subjects include conversions of various number systems; logic gates, counters, registers, adders, flip-flops, various timing consideration; serial data stream analysis; radar transmit/receiver circuits; microprocessor component analysis; and IFF transponder operations. Version 2: Lectures and practical exercises on topics in digital electronics and in the troubleshooting and repair of missile equipment.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in digital principles, 2 in radar systems, and 2 in electronic system troubleshooting and maintenance (6/95). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in digital principles, 2 in radar systems, and 3 in electronic systems troubleshooting and maintenance (11/88).

Related Occupations: 24R.

AR-1715-0800

MAN PORTABLE AIR DEFENSE (MANPAD)
CREWMEMBER (STINGER) RESERVE
COMPONENT

Course Number: 043-16S10-RC.

Location: Reserve locations, US.

Length: 4 weeks (164 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to visually

identify projected aircraft images; maintain and operate weapon/training devices; program the IFF interrogator; track a radio-controlled aerial target; operate and maintain man portable air defense communications equipment; select a firing position and fire control, as well as destroy weapon to prevent enemy use.

Instruction: Lectures and practical experience on the Stinger weapon system, its maintenance, and communications systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/88).

Related Occupations: 16S.

AR-1715-0801

MAN PORTABLE AIR DEFENSE (MANPAD) CREW MEMBER (REDEYE) RESERVE COMPONENT

Course Number: 043-16S10-RC.

Location: Reserve locations, US.

Length: 4 weeks (157 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to visually identify projected aircraft images; maintain and operate weapon/training devices; charge M-49 batteries; track a radio-controlled aerial target; operate and maintain man portable air defense communications equipment; select a firing position and fire, as well as destroy the weapon to prevent enemy use.

Instruction: Lectures and practical experience in the skills required to prepare and fire the Redeye weapons system and maintain the system at the operator level.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/88).

Related Occupations: 16S.

AR-1715-0802

HAWK MASTER MECHANIC

Course Number: 121-24R40-B.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 7-9 weeks (281-300 hours).

Exhibit Dates: 1/90–1/92.

Learning Outcomes: Upon completion of the course, the student will be able to troubleshoot and repair the loader-transporter, missile launcher, and radar system of the Hawk missile.

Instruction: Lectures and practical exercises focussed on troubleshooting and repairing the equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (3/91).

Related Occupations: 24R.

AR-1715-0803

AIR DEFENSE ARTILLERY OFFICER ADVANCED HAWK FOLLOW-ON

(Air Defense Artillery (ADA) Officer Advanced Follow-On Training Hawk Track)

Course Number: 2F-FOA-F14.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 4-5 weeks (156 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will demonstrate understanding of each item of equipment in the Hawk

missile system along with its operation and deployment.

Instruction: Lectures and practical exercises on the Hawk missile system, its components, operation and deployment.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/90).

AR-1715-0807

AIR DEFENSE ARTILLERY (ADA) COMMAND AND CONTROL SYSTEMS TECHNICIAN WARRANT OFFICER TECHNICAL CERTIFICATION

Course Number: 4C-140A; 4C-225B.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 26-27 weeks (942 hours).

Exhibit Dates: 1/90–6/94.

Learning Outcomes: Upon completion of the course, the student will be able to operate and maintain air defense weapons control systems and equipment; use common laboratory instruments and perform electronic laboratory work; describe the operation of vacuum tubes, motors, generators, relays, synchros systems and servo systems; describe the basic principles of radar; troubleshoot and repair radar equipment; troubleshoot and repair computer equipment.

Instruction: Lectures and practical exercises focussed on operation and maintenance of the command and control system which includes radar, communication, and data processing equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 3 in electronic systems troubleshooting and maintenance, 2 in radar systems, 2 in computer systems troubleshooting and maintenance, and 1 in industrial electronics (11/88).

AR-1715-0808

FORWARD AREA ALERTING RADAR (FAAR) OPERATOR

(Defense Acquisition Radar Operator)

Course Number: 043-16J10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 5-8 weeks (200-276 hours).

Exhibit Dates: 1/90–6/94.

Learning Outcomes: Upon completion of the course, the student will be able to explain the general operation of a Forward Area Alerting Radar system, operate the system, and perform operational checks.

Instruction: Lectures, demonstrations, and practical exercises, including field training, on the operation of the radar system.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/90).

Related Occupations: 16J.

AR-1715-0809

BASIC NONCOMMISSIONED OFFICER (NCO) 24N TRACK

(Chaparral System Mechanic Basic Non-commissioned Officer (NCO))

Course Number: 121-24N30.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 5 weeks (172-220 hours).

Exhibit Dates: 1/90–6/94.

Learning Outcomes: Upon completion of the course, the student will be able to demonstrate common leadership skills, a working knowledge of maintenance management, and supervisory skills in the maintenance of the diesel power unit of a Chaparral weapon system.

Instruction: Lectures and practical experience in leadership skills, maintenance and supply management, and maintenance of the diesel power unit of a Chaparral weapon system.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (3/89).

Related Occupations: 24N.

AR-1715-0810

VULCAN SYSTEM MECHANIC BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 121-24M30.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 5 weeks (168-220 hours).

Exhibit Dates: 1/90–7/94.

Learning Outcomes: Upon completion of the course, the student will plan, implement, supervise, and evaluate Vulcan air defense system maintenance.

Instruction: Lectures and practical exercises focused on military procedures and the specific equipment.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (3/89).

Related Occupations: 24M.

AR-1715-0812

1. CHAPARRAL CREWMEMBER
2. AIR DEFENSE ARTILLERY (ADA) CREW MEMBER

Course Number: Version 1: 043-16P10. Version 2: 043-16P10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: Version 1: 8 weeks (286 hours). Version 2: 8-9 weeks (296 hours).

Exhibit Dates: Version 1: 8/93–Present. Version 2: 1/90–7/93.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to operate and perform corrective maintenance on the chaparral communications equipment and vehicle. The student will perform gunner and crewmember functions. Version 2: Upon completion of the course, the student will be able to identify aircraft, operate communications equipment, missile equipment, and a missile carrier.

Instruction: Version 1: Conferences, demonstrations, and practical exercises on the basic operator skills of the Chaparral system to include operation, corrective maintenance, and crew/gunner functions. Version 2: Lectures and practical exercises on the above topics.

Credit Recommendation: Version 1: In the vocational certificate category, 1 semester hour in automotive maintenance (6/95). Version 2: Credit is not recommended because of the military-specific nature of the course (11/88).

Related Occupations: 16P.

AR-1715-0813

BASIC NONCOMMISSIONED OFFICER (NCO) 24T TRACK

(Patriot Operator and System Mechanic)
Basic Noncommissioned Officer
(NCO)

Course Number: 632-24130

Location: Air Defense Artillery School, Ft. Bliss, TX

Length: 5-7 weeks (185-278 hours)

Exhibit Dates: 1/90-6/94

Learning Outcomes: Upon completion of the course, the student will plan, implement, supervise, and evaluate tactical operations of the Patriot missile system. Student will also maintain system equipment.

Instruction: Lectures and practical exercises focussed on the operation and maintenance on the missile system.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (3/89).

Related Occupations: 24T.

AR-1715-0814

HAWK FIRING SECTION MECHANIC (PIP II)

Course Number: *Version 1:* 121-24C10.
Version 2: 121-24C10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: *Version 1:* 16 weeks (590 hours).
Version 2: 26 weeks (934 hours).

Exhibit Dates: *Version 1:* 10/90-12/92.
Version 2: 1/90-9/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to operate and maintain the launcher, the loader-transport, the illuminator radar, and will be able to integrate overall system control signals. This course is designed to teach junior enlisted personnel the skills that would be needed to do detailed maintenance on the Hawk missile system. *Version 2:* Upon completion of the course, the student will be able to use common laboratory instruments and perform electronic laboratory work; analyze DC series, parallel, and series/parallel circuits; analyze series and parallel RL and RC circuits; make time constant calculations; make transformer calculations; explain the operation of solid state devices to include bipolar and FET transistors, diodes, UJTs, and SCRs; analyze solid state circuits including class A, B, and C amplifiers, voltage regulators, operational amplifiers, oscillators, power supplies, multivibrators, and CRT circuits; describe the operation of vacuum tubes; perform conversions between decimal, binary, octal, and hexadecimal number systems; explain the operation and truth table for digital circuit elements including logic gates, flip-flops, counters, registers, adders, subtractors, multiplexers, demultiplexers; describe digital-to-analog and analog-to-digital converters; analyze superheterodyne receiver circuits; follow systematic troubleshooting procedures; and perform operational checks, fault isolation, and repair of Hawk missile equipment, including a radar system.

Instruction: *Version 1:* This course is taught using lectures coupled with extensive hands-on laboratory experiences. In teaching the material all instructional segments are aimed at specific sections of the Hawk missile system, but these segments contain instruction in such things as AC/DC, transistors/FETs, thyristors, voltage regulation, power supplies, filters, resonance, and oscillators. Additionally digital concepts and devices (i.e. counters, register, ADC/DAC,

flip-flops, and logic gates) are included in this course. Finally basic hydraulic theory and power distribution are included. *Version 2:* Lectures and practical exercises on topics in basic electronics and on maintenance of the missile system.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in DC circuits, 1 in AC circuits, 1 in solid state electronics, 2 in digital circuits, 2 in radar, and 2 in electronic systems troubleshooting and maintenance (6/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hour in AC circuits, 1 in DC circuits, 4 in solid state electronics, 4 in digital principles, 1 in radar systems, 3 in basic electronics laboratory, and 3 in electronic systems troubleshooting and maintenance (11/88).

Related Occupations: 24C.

AR-1715-0815

HAWK INFORMATION COORDINATION CENTRAL
MECHANIC (PIP 2)

Course Number: *Version 1:* 104-24G10
(PIP 2). *Version 2:* 104-24G10 (PIP 2).

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: *Version 1:* 17 weeks (613-619 hours). *Version 2:* 45 weeks (1618 hours).

Exhibit Dates: *Version 1:* 11/90-12/92.
Version 2: 1/90-10/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will know and be able to perform unit level maintenance on the radar, interrogator set data processor, and control console systems; use common laboratory instruments and perform electronic laboratory work; analyze DC series, parallel, and series/parallel circuits; analyze series and parallel RL and RC circuits; make time constant calculations; make transformer calculations; explain the operation of solid state devices to include bipolar and FET transistors, diodes, UJTs, and SCRs; analyze solid state circuits including class A, B, and C amplifiers, voltage regulators, operational amplifiers, oscillators, power supplies, multivibrators, and CRT circuits; describe the operation of vacuum tubes and analyze various vacuum tube circuits; perform conversions between decimal, binary, octal, and hexadecimal number systems; explain the operation and truth table for digital circuit elements including logic gates, flip-flops, counters, registers, adders, subtractors, multiplexers, demultiplexers; describe digital-to-analog and analog-to-digital converters; analyze superheterodyne receiver circuits; and follow systematic troubleshooting procedures. *Version 2:* Upon completion of the course, the student will be able to use common laboratory instruments and perform electronic laboratory work; analyze DC series, parallel, and series/parallel circuits; analyze series and parallel RL and RC circuits; make time constant calculations; make transformer calculations; explain the operation of solid state devices to include bipolar and FET transistors, diodes, UJTs, and SCRs; analyze solid state circuits including class A, B, and C amplifiers, voltage regulators, operational amplifiers, oscillators, power supplies, multivibrators, and CRT circuits; describe the operation of vacuum tubes and analyze various vacuum tube circuits; perform conversions between decimal, binary, octal, and hexadecimal number systems; explain the operation and

truth table for digital circuit elements including logic gates, flip-flops, counters, registers, adders, subtractors, multiplexers, demultiplexers; describe digital to analog and analog to digital converters; analyze superheterodyne receiver circuits; and follow systematic troubleshooting procedures.

Instruction: *Version 1:* Lecture and practical exercises on the Hawk missile system including operational checks, adjustments, fault isolation, and unit level maintenance of the complete system covering AC and DC circuits, solid state electronics, digital circuits, automated data processing equipment, and radar systems. *Version 2:* Lectures, demonstrations, and practical experiences in AC and DC circuits, solid state electronics, digital circuits, automated data processing equipment, and radar systems.

Credit Recommendation: *Version 1:* In the lower division baccalaureate/associate degree category, 2 semester hours in radar systems, 3 in AC/DC circuits, and 3 in electronic systems troubleshooting and maintenance (6/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in AC circuits, 1 in DC circuits, 3 in solid state electronics, 4 in digital principles, 2 in radar systems, 3 in basic electronics laboratory, 1 in vacuum tube electronics, 3 in electronic systems troubleshooting and maintenance, and 3 in computer systems troubleshooting and maintenance (11/88).

Related Occupations: 24G.

AR-1715-0817

MAN PORTABLE AIR DEFENSE (MANPAD) CREW
MEMBER

Course Number: 043-16S10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 7-8 weeks (253-261 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to visually identify at least 30 aircraft types; operate and maintain Stinger and Redeye weapons systems and training devices; and operate and maintain associated transportation and communications equipment, such as 1/4 ton truck and trailer and communication radio.

Instruction: Lectures and practical exercises in operation and maintenance of weapon system components.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/91).

Related Occupations: 16S.

AR-1715-0818

HAWK FIRE CONTROL CREW MEMBER

Course Number: 043-16E10 (PIP 2).

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 7-9 weeks (278-313 hours).

Exhibit Dates: 1/90-1/93.

Learning Outcomes: Upon completion of the course, the student will be able to perform checks and procedures on a 60KW generator, and a 2 1/2 ton truck; perform checks and procedures on radar; prepare for travel and emplacement of the command post; perform Hawk system orientation, alignment, and maintenance; and read, write, transmit, and receive coded tactical messages.

Instruction: Lectures and demonstrations in the installation, operation, and preventive maintenance of equipment in the system.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/91).

Related Occupations: 16E.

AR-1715-0819

VULCAN CREW MEMBER

Course Number: 041-16R10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 9-10 weeks (345 hours).

Exhibit Dates: 1/90-6/94.

Learning Outcomes: Upon completion of the course, the student will be able to visually recognize types of aircraft; perform maintenance on Vulcan systems, including radar; and prepare Vulcan systems to operate in a tactical environment.

Instruction: Lectures and practical exercises in the procedures and practices of the operation and maintenance of air defense weapons systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/88).

Related Occupations: 16R.

AR-1715-0820

1. AN/TSQ-73 AIR DEFENSE ARTILLERY (ADA)
COMMAND AND CONTROL SYSTEM
OPERATOR/MAINTAINER

(AN/TSQ-73 Air Defense Artillery (ADA)
Command and Control System Operator/Repairer)

2. AN/TSQ-73 AIR DEFENSE ARTILLERY (ADA)
COMMAND AND CONTROL SYSTEM
OPERATOR/REPAIRER

Course Number: *Version 1:* 150-25L10.
Version 2: 150-25L10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: *Version 1:* 24 weeks (878 hours).
Version 2: 31 weeks (1112 hours).

Exhibit Dates: *Version 1:* 8/90-Present.
Version 2: 1/90-7/90.

Learning Outcomes: *Version 1:* Upon completion of this course, the student will be able to use system console switches, auxiliary read out data fields, technical manuals and test instruments to operate, maintain, and fault isolate system level problems. The student will be able to identify console switch functions, perform hook-up procedures, operate the AN/TSQ-73 system in tactical modes, establish transmission zones, data communication, voice nets, and intercom functions. Signal tracing, system alignment, identification of system sub-system (AN/MPQ-50, AN/TPX-46), safety procedures and familiarization of electronic/electrical terms/schematic symbols are all part of the student's responsibility and training. *Version 2:* Upon completion of this course, the student will be able to use common test instruments and perform electronic test work; analyze DC series, parallel, and series/parallel circuits; analyze series and parallel RL and RC circuits; make time constant calculations; make transformer calculations; explain the operation of solid-state devices to include bipolar and FET transistors, diodes, UJTs, and SCRs; analyze solid-state circuits including class A, B, and C amplifiers, voltage regulators, operational

amplifiers, oscillators, power supplies, multivibrators, and CRT circuits; describe the operation of vacuum tubes and analyze various vacuum tube circuits; perform conversions between decimal, binary, octal, and hexadecimal number systems; explain the operation and truth table for digital circuit elements including logic gates, flip-flops, counters, registers, adders, subtractors, multiplexers, demultiplexers; describe digital-to-analog and analog-to-digital converters; analyze superheterodyne receiver circuits; follow systematic troubleshooting procedures.

Instruction: *Version 1:* Conferences, demonstrations, and practical exercises in basic system operations, maintenance, and fault isolation, to the organizational level, of the air defense artillery command and control system (AN/TSQ-73) to include the AN/MPQ-50 pulse acquisition radar and AN/TPX-46 interrogator set. *Version 2:* Lectures and practical exercises in basic electronics and on the maintenance of a radar system and an interrogation system.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems, 3 in electronic systems maintenance and troubleshooting, 1 in DC circuits, 1 in AC circuits, 1 in solid state electronics, and 1 in digital principles (5/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in AC circuits, 1 in DC circuits, 3 in solid state electronics, 4 in digital principles, 2 in radar systems, 3 in basic electronics laboratory, and 3 in electronic systems troubleshooting and maintenance (11/88).

Related Occupations: 25L.

AR-1715-0821

HAWK FIRE CONTROL MECHANIC (PIP II)
(Hawk Fire Control Maintenance)

Course Number: 121-24E10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 36-37 weeks (1321 hours).

Exhibit Dates: 1/90-2/90.

Learning Outcomes: Upon completion of the course, the student will be able to use common laboratory instruments and perform electronic laboratory work; analyze DC series, parallel, and series/parallel circuits; analyze series and parallel RL and RC circuits; make time constant calculations; make transformer calculations; explain the operation of solid state devices to include bipolar and FET transistors, diodes, UJTs, and SCRs; analyze solid state circuits including class A, B, and C amplifiers, voltage regulators, operational amplifiers, oscillators, power supplies, multivibrators, and CRT circuits; describe the operation of vacuum tubes and analyze various vacuum tube circuits; perform conversions between decimal, binary, octal, and hexadecimal number systems; explain the operation and truth table for digital circuit elements including logic gates, flip-flops, counters, registers, adders, subtractors, multiplexers, demultiplexers; describe digital-to-analog and analog-to-digital converters; analyze superheterodyne receiver circuits; follow systematic troubleshooting procedures; perform operational checks, fault isolation, and repair of the Hawk missile fire control system including radar.

Instruction: Lectures and practical exercises in basic electronics and maintenance of the missile system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hour in AC circuits, 1 in DC circuits, 4 in solid state electronics, 4 in digital principles, 1 in radar systems, 3 in basic electronics laboratory, 1 in vacuum tube electronics, and 3 in electronic systems troubleshooting and maintenance (11/88).

Related Occupations: 24E.

AR-1715-0822

COMMUNICATIONS ELECTRONIC WARFARE
EQUIPMENT OPERATIONS

(Electronic Warfare (EW) Operations Phase I)

Course Number: 231-ASIK3.

Location: Intelligence School, Ft. Huachuca, AZ; Intelligence School, Ft. Devens, MA.

Length: 5-9 weeks (216-355 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate and maintain electronic countermeasuring equipment and radio receiver sets for purposes of communications jamming, data collection, and data reporting.

Instruction: Lectures, demonstrations, and performance exercises in basic radio communication theory, the operation and maintenance of electronic countermeasuring equipment and radio receiver sets, and technical documentation and reporting procedures.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (10/93).

AR-1715-0823

PERSHING II ELECTRONICS MATERIEL SPECIALIST

Course Number: 121-21G10.

Location: Field Artillery School, Ft. Sill, OK.

Length: 10 weeks (361 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate and perform supervised preventive and corrective maintenance on the Pershing missile systems.

Instruction: Lectures and laboratory exercises covering basic electricity/electronics theory and troubleshooting, generator operation, basic hydraulic systems, inertial measurement systems, and general organizational level corrective maintenance.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electrical laboratory (6/89).

Related Occupations: 21G.

AR-1715-0824

SPECIAL FORCES COMMUNICATIONS SERGEANT
(Special Operations Communications Sergeant)

Course Number: 011-18E30.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 23-24 weeks (1568-1645 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to determine, by use of aerial photographs and military maps, proper locations, distances, elevations, and desirable routes; locate points on maps by

use of azimuth distance and intersection techniques, care for and launch small boats, navigate to a selected landing site, prepare military orders for special forces operations, install antennas and operate specialized radio equipment to encrypt and decrypt messages; send and receive International Morse Code at a speed of 15 five letter code groups per minute, and operate field communication systems under adverse conditions.

Instruction: Instruction includes lectures and practical exercises in the use of maps, photographs, navigation, use of specialized radio sets, short and long range reconnaissance techniques, security systems, infiltration and exfiltration techniques, special survival techniques, airborne operations, cross-cultural communication, extensive unconventional warfare field experience, basic radio communication, antenna design and installation, International Morse Code, and field operations in extreme environmental conditions.

Credit Recommendation: In the vocational certificate category, 3 semester hours in Morse Code, and 3 in basic radio communications (12/92); in the lower-division baccalaureate/associate degree category, 1 semester hour in orienteering, 1 in survival/outdoor pursuits, 3 in electronic communications, and 1 in water safety. See AR-1406-0090 for common core credit (12/92).

AR-1715-0825

SPECIAL FORCES BURST COMMUNICATIONS SYSTEM
MAINTENANCE

Course Number: *Version 1:* 101-F23. *Version 2:* 101-F23.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: *Version 1:* 10 weeks (406 hours). *Version 2:* 8 weeks (279-306 hours).

Exhibit Dates: *Version 1:* 10/94–Present. *Version 2:* 1/90–9/94.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to plan, conduct, and support unit-level installation and maintenance of a burst communications system. *Version 2:* Upon completion of the course, the student will be able to plan, conduct, and support unit-level installation and maintenance of a burst communications system.

Instruction: *Version 1:* Instruction includes lectures and hands-on training in general theory of burst communications systems, alignment and initialization procedures, high frequency transmitters and subsystems, receiver and communication security subsystems, field radio and power supplies for field communication systems. *Version 2:* Instruction includes lectures and hands-on training in general theory of burst communications systems, alignment and initialization procedures, high frequency transmitters and subsystems, receiver and communication security subsystems, field radio and power supplies for field communication systems.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 3 semester hours in electronic troubleshooting (1/91); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic communications (1/91).

AR-1715-0826

SPECIAL OPERATIONS COMMUNICATIONS SERGEANT
RESERVE COMPONENT PHASE 4

Course Number: 011-181-30-RC

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC

Length: 3 weeks (193 hours)

Exhibit Dates: 1/90–Present

Learning Outcomes: Upon completion of the course, the student will be able to send and receive International Morse Code at a speed of ten five letter code groups per minute, serve as a special operations communications sergeant; construct antennas; install, tune, and operate special forces radio equipment.

Instruction: Instruction includes lectures in radio theory, differences in specialized radio sets, International Morse Code, cryptographic systems, and installation and operation of specialized radio equipment.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic communications (12/88).

Related Occupations: 18E.

AR-1715-0827

ELECTRONIC WARFARE (EW)/INTERCEPT
STRATEGIC RECEIVING SUBSYSTEM
REPAIRER

Course Number: 102-33P10.

Location: Intelligence School, Ft. Devens, MA.

Length: 42-43 weeks (1562-1563 hours).

Exhibit Dates: 1/90–3/94.

Learning Outcomes: Upon completion of the course, the student will be able to identify and correct problems in solid state, analog, digital and microprocessor-based communication subsystems, including modulators/demodulators, UHF/VHF radio receivers, video displays, and servo mechanisms.

Instruction: Lectures, laboratory, demonstration, and performance exercises on electronic warfare/intercept strategic receiving subsystems.

Credit Recommendation: In the vocational certificate category, 4 semester hours in communications laboratory and 2 in PACE solder laboratory (5/87); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity/electronics (AC/DC) theory, 4 in solid state circuit analysis, 4 in digital logic, and 3 in microprocessor fundamentals (5/87).

AR-1715-0829

FIELD ARTILLERY FIREFINDER RADAR OPERATOR

Course Number: 221-13R10.

Location: Field Artillery School, Ft. Sill, OK.

Length: 5-8 weeks (190-277 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to serve as a member of an artillery fire control team; select a site for an artillery sighting radar; emplace, orient, check, adjust, separate, and perform preventive maintenance on such radar systems.

Instruction: Lectures and practical exercises on the deployment and operator maintenance on radar sets that support the field artillery; the use of maps for fire control, analysis of target data to differentiate between friendly and hostile fire; and emplacement, operation, and preventive maintenance of fire control radars.

Credit Recommendation: In the vocational certificate category, 3 semester hours in radar

operations (10/91); in the lower-division baccalaureate/associate degree category, 3 semester hours in map reading (10/91).

Related Occupations: 13R.

AR-1715-0831

FIELD ARTILLERY DIGITAL SYSTEMS REPAIRER

Course Number: 113-39L10.

Location: Field Artillery School, Ft. Sill, OK.

Length: 16-17 weeks (601 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to use basic test equipment; understand basic principles of AC/DC circuits, analog and digital systems, computers and radar systems; test, troubleshoot, and repair field artillery systems; and solder.

Instruction: Lecture and laboratory exercises in the fundamentals of AC/DC circuits, solid state devices, digital circuits and systems, troubleshooting and repair of field digital systems and battery computer units.

Credit Recommendation: In the vocational certificate category, 2 semester hours in soldering (6/89); in the lower-division baccalaureate/associate degree category, 4 in AC/DC circuits, 3 in solid state electronics, 3 in digital principles, 3 in computer fundamentals, and 3 in electronic system troubleshooting and repair (6/89).

Related Occupations: 39L.

AR-1715-0832

TACTICAL FIRE (TACFIRE) OPERATIONS
SPECIALIST

Course Number: 250-13C10.

Location: Field Artillery School, Ft. Sill, OK.

Length: 5 weeks (181 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to tactically employ, operate, and maintain the Tactical Fire (TACFIRE) Direction System.

Instruction: Lectures and demonstrations in the employment, operation, and maintenance of TACFIRE equipment, operations of the Back-up Computer System (BUCS) and Variable Format Message Entry Device (VFMED), field artillery operations, and the duties, responsibilities, and missions of personnel working in a TACFIRE operations center.

Credit Recommendation: In the vocational certificate category, 1 semester hour in radio operations and 1 in operational maintenance (6/89); in the lower-division baccalaureate/associate degree category, 1 semester hour in map reading and 1 in computer operations (6/89).

Related Occupations: 13C.

AR-1715-0835

1. METEOROLOGICAL EQUIPMENT MAINTENANCE
METEOROLOGICAL DATA SYSTEMS
(Meteorological Equipment Maintenance)
2. METEOROLOGICAL EQUIPMENT MAINTENANCE
METEOROLOGICAL DATA SYSTEM
(Meteorological Equipment Maintenance)

Course Number: *Version 1:* 420-ASIH1. *Version 2:* 420-ASIH1.

Location: Field Artillery School, Ft. Sill, OK.

Length: *Version 1:* 10 weeks (360 hours). *Version 2:* 19 weeks (693 hours).

Exhibit Dates: *Version 1:* 10/91–Present. *Version 2:* 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will possess the knowledge and skills necessary to perform organizational maintenance on the meteorological data system (AN/TMQ-13) and the meteorological measuring system (AW/TMQ-38). *Version 2:* Upon completion of the course, the student will be able to perform complete maintenance on the GMD/1 Rawin and MDS upper air measurement systems.

Instruction: *Version 1:* Instruction and laboratory exercises covering the maintenance, troubleshooting, and repair of all parts of the meteorological data systems and the meteorological measuring system. The initial part of the course covers basic DC/AC circuits and solid state theory. *Version 2:* Instruction and practical exercises on the individual sections of the GMD/1 and MDS Rawin systems, troubleshooting procedures for all portions of system, calibration and performance evaluations, repair of mechanical systems, standard test instruments, and review of all technical manuals.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in DC/AC circuits theory and solid state electronics (9/94); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (9/94). *Version 2:* In the vocational certificate category, 3 semester hours in introduction to electricity (6/89); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronic systems troubleshooting and maintenance (6/89).

AR-1715-0838

FIELD ARTILLERY FIREFINDER UNIT MAINTENANCE

Course Number: *Version 1:* 221-ASIX5. *Version 2:* 221-ASIX5.

Location: Field Artillery School, Ft. Sill, OK.

Length: *Version 1:* 8-12 weeks (246-428 hours). *Version 2:* 11-16 weeks (389-576 hours).

Exhibit Dates: *Version 1:* 3/91–3/95. *Version 2:* 1/90–2/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to use the theory and specialized test equipment required for the calibration, alignment and corrective maintenance on the Field Artillery Firefinder Radar Set. *Version 2:* Upon completion of the course, the student will be able to use the theory and specialized test equipment required for the calibration, alignment and corrective maintenance on the Field Artillery Firefinder Radar set.

Instruction: *Version 1:* Lecture and laboratory exercises on the operation and maintenance of a radar system and its subsystems including power distribution, signal processor, magnetic drive, receiver/exciter, beam steering unit, antenna positioning, line printer, etc. Topics covered include functional parts and their interrelationship; purpose and use of controls; the use of calibration, alignment and troubleshooting procedures and systems; and an overview of DC/AC circuits and basic electronics. *Version 2:* Lectures and laboratory exercises in basic electronics, digital circuits and number systems, solid state theory and radar theory; use of oscilloscope and diagnostic test procedures to troubleshoot the radar computer, magnetic drive

and lineprinter; corrective maintenance procedures for the radar buffer, synchronizer, and video processor.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in basic DC/AC/digital/solid state circuits and 3 in radar laboratory (9/94). *Version 2:* In the vocational certificate category, 3 semester hours in basic electronics and 3 in radar laboratory (6/89); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (6/89).

AR-1715-0839

TARGET ACQUISITION/SURVEILLANCE RADAR REPAIRER

Course Number: 104-39C10.

Location: Field Artillery School, Ft. Sill, OK.

Length: 23-26 weeks (889-932 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to use basic test equipment; understand basic principles of AC/DC circuits, analog and digital systems, computers and radar systems; and test, troubleshoot, and repair target acquisition/surveillance radars.

Instruction: Lecture and laboratory practice in DC/AC/solid state/digital circuits and radar systems, computer fundamentals and reliable soldering and troubleshooting techniques.

Credit Recommendation: In the vocational certificate category, 2 semester hours in soldering (6/89); in the lower-division baccalaureate/associate degree category, 4 in AC/DC circuits, 3 in solid state electronics, 3 in digital principles, 3 in computer fundamentals, 2 in radar systems, and 2 in electronic troubleshooting and repair (6/89).

Related Occupations: 39C.

AR-1715-0840

TARGET ACQUISITION RADAR TECHNICIAN WARRANT OFFICER TECHNICAL CERTIFICATION

Course Number: 4C-131A; 4C-211A.

Location: Field Artillery School, Ft. Sill, OK.

Length: 29-30 weeks (1088 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise and provide technical, operational, and corrective maintenance support for the Target Acquisition Radar System Technician.

Instruction: Lecture and extensive laboratory exercises in radar site selection, digital, solid state and basic electronics, radar operations and maintenance, antenna selection, test equipment, and system troubleshooting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics/electricity, 3 in electronics laboratory, 6 in electronic systems troubleshooting and repair, 3 in digital principles, 2 in microprocessors, and 3 in radar systems operation (6/89); in the upper-division baccalaureate category, 3 semester hours in radar systems (6/89).

Related Occupations: 131A; 211A.

AR-1715-0841

TARGET ACQUISITION RADAR TECHNICIAN WARRANT OFFICER TECHNICAL CERTIFICATION (RESERVE COMPONENT)

Course Number: 4C-131A-RC.

Location: Field Artillery School, Ft. Sill, OK.

Length: For Phases 2 and 4, 14-15 weeks (534 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise and provide technical, operational, and corrective maintenance support for the target acquisition radar system.

Instruction: Lecture and extensive laboratory exercises in radar site selection, digital electronics, solid state and basic electronics, radar maintenance and operation, antenna selection, test equipment and system troubleshooting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics/electricity, 3 in electronics laboratory, 6 in electronic system troubleshooting and repair, 3 in digital principles, 2 in microprocessors, and 3 in radar systems operation (6/89); in the upper-division baccalaureate category, 3 semester hours in radar systems (6/89).

Related Occupations: 131A.

AR-1715-0842

PERSHING MISSILE SYSTEMS TECHNICIAN WARRANT OFFICER TECHNICAL CERTIFICATION

Course Number: 4F-214E; 4F-130A.

Location: Field Artillery School, Ft. Sill, OK.

Length: 18-25 weeks (668-901 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to secure nuclear weapons and deal with emergency operations concerning nuclear weapons.

Instruction: Lectures and practical exercises in AC/DC circuits, transistors and transistor circuits, logic circuits, microprocessors, Pershing missile systems, and message authentication.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems troubleshooting and repair, 2 in DC circuits, 2 in AC circuits, 2 in solid state electronics, and 2 in microprocessors (6/89).

Related Occupations: 130A; 214E.

AR-1715-0843

LANCE MISSILE SYSTEM TECHNICIAN WARRANT OFFICER TECHNICAL CERTIFICATION

Course Number: 4F-130B.

Location: Field Artillery School, Ft. Sill, OK.

Length: 7-8 weeks (266 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify the correct procedures for missile inspections, handling, and assembly; inspect, detect, and connect unit level maintenance problems and update forms and records associated with the equipment.

Instruction: Lecture and laboratory on the organization and mission of Lance missile sys-

tem, tactical employment and operation of the system; assembly, storage, and inspection procedures; characteristics and nomenclature of missile components, and the preparation and submission of missile material readiness reports.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in DC circuits (6/89).

Related Occupations: 130B

AR-1715-0844

CANNON FIRE DIRECTION SPECIALIST

Course Number: 250-13E10

Location: Field Artillery School, Ft. Sill, OK.

Length: 7-8 weeks (250-280 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to construct firing charts, plot reference points, target locations, make corrections for subsequent firing, input necessary meteorological data to the backup computer system, utilize various maps, and prepare and operate specialized radio sets.

Instruction: Topics include review of basic mathematics, lectures and practice in the construction and use of firing charts, utilization of meteorological data for input to the backup computer system and specialized radio systems.

Credit Recommendation: In the vocational certificate category, 1 semester hour in radio communication (1/92); in the lower-division baccalaureate/associate degree category, 1 semester hour in computer operations and 1 in map reading (1/92).

Related Occupations: 13E.

AR-1715-0846

FIRE SUPPORT SPECIALIST

(Field Artillery Fire Support Specialist)

Course Number: *Version 1:* 250-13F10. *Version 2:* 250-13F10.

Location: Field Artillery School, Ft. Sill, OK.

Length: *Version 1:* 6-7 weeks (243-255 hours). *Version 2:* 6-7 weeks (216-243 hours).

Exhibit Dates: *Version 1:* 1/92–Present. *Version 2:* 1/90–12/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to locate, request, and adjust indirect fire support using lasers and digital communications equipment. *Version 2:* Upon completion of the course, the student will be able to serve as a member of a fire support team, prepare digital messages and operate message devices, determine target locations by any of several methods, operate laser and thermal sighting devices, determine and convert map coordinates and utilize specialized radio systems.

Instruction: *Version 1:* Lectures and practical exercises in target acquisition, map reading, land navigation terrain analysis, radio communications, and fire procedures. *Version 2:* Instruction includes lectures and practical exercises in map reading, land navigation, resection, polar plotting, installation and operation of certain radio systems, thermal and visual sighting devices, and transmission of artillery sighting information.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading and terrain analysis (6/95). *Version 2:* In the voca-

tional certificate category, 1 semester hour in radio operation (1/92); in the lower-division baccalaureate/associate degree category, 1 in map reading (1/92).

AR-1715-0847

MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)/
LAUNCH OPERATIONS FIRE SPECIALIST

Course Number: 043-13P10

Location: Field Artillery School, Ft. Sill, OK.

Length: 10-12 weeks (384-452 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to read and interpret maps; plot locations; compute distance, direction and altitude; use radio communication equipment; use digital message devices; operate a computer system; and install and operate telephones with security equipment.

Instruction: Lectures, group activities, and performance exercises on map interpretation, communications equipment and procedures, and computer equipment use, provides knowledge and skills necessary to perform functions associated with plotting on maps, computing, communicating and maintaining of equipment.

Credit Recommendation: In the vocational certificate category, 1 semester hour in radio operations (6/91); in the lower-division baccalaureate/associate degree category, 1 semester hour in map reading (6/91).

Related Occupations: 13P.

AR-1715-0848

TELECOMMUNICATIONS TERMINAL DEVICE
REPAIRER

(Teletypewriter Equipment Repairer)

Course Number: *Version 1:* 160-29J10. *Version 2:* 160-29J10.

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 20-26 weeks (740-920 hours). *Version 2:* 17-18 weeks (712 hours).

Exhibit Dates: *Version 1:* 10/91–Present. *Version 2:* 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to identify series, parallel and series/parallel resistance circuits and determine values of resistance, voltage, and current in the circuit; explain the basic operation of semiconductor, junction diodes, and transistors and identify their uses in rectifier circuits and voltage regulators; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers, and counters; explain the theory and operation of microprocessor-based computers, including the concepts of busses, memory, control signals, and addressing; explain how a microcomputer performs arithmetic and logic operations; use machine language instructions; solder and desolder wire to various types of electronic terminals; solder and desolder electronic components to printed circuit boards. *Version 2:* Upon completion of the course, the student will be able to identify series, parallel and series/parallel circuits and determine value of resistance, voltage and current in the circuits; comprehend concepts of alternating current including frequency, phase, and reactance; explain the basic operation of semiconductors, junction diodes, and bipolar transistors and identify their use in rectifier cir-

cuits and voltage regulators; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers, and counters; explain the theory and operation of microprocessor-based computers including the concepts of busses, memory, control signals, and addressing, and install, troubleshoot, and repair teletypewriters, facsimile equipment, bar code scanners, and console panels.

Instruction: *Version 1:* Lectures, practical exercises, and exams on the subject matter. *Version 2:* Lectures, practical exercises, and exams on the subject matter.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in soldering techniques (2/94); in the lower-division baccalaureate/associate degree category, 1 semester hour in AC circuits, 2 in DC circuits, 1 in solid state electronics, 1 in digital principles, 1 in microprocessors, 3 in electronic systems troubleshooting and maintenance, and 3 in basic electronics laboratory (2/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in AC circuits, 1 in DC circuits, 1 in solid state electronics, 1 in digital principles, 1 in microprocessors, 3 in electronic systems troubleshooting and maintenance, and 3 in basic electronics laboratory (7/89).

Related Occupations: 29J.

AR-1715-0849

COMMUNICATIONS SYSTEMS/CIRCUIT CONTROLLER

Course Number: 202-31N10.

Location: Signal School, Ft. Gordon, GA.

Length: 21-24 weeks (778-864 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify series, parallel, and series/parallel DC circuits and determine values of resistance, voltage, and current in the circuits; comprehend AC circuit concepts including frequency, phase, and reactance; explain basic operation of semiconductors, junction diodes, and bipolar transistors and identify their use in rectifier circuits and voltage regulators; troubleshoot and explain the operation of basic transistor amplifiers, power amplifiers, and operational amplifiers; install, operate and maintain specific military communications equipment.

Instruction: Classroom and laboratory exercises involving DC and AC circuits and typical amplifier circuits and the specific equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in AC circuits, 1 in DC circuits, 2 in basic electronics laboratory, 2 in solid state electronics, and 2 in electronic systems troubleshooting and maintenance (6/90).

AR-1715-0850

AUTOMATIC TEST EQUIPMENT OPERATOR/
MAINTAINER

Course Number: *Version 1:* 198-39B10. *Version 2:* 198-39B10.

Location: *Version 1:* Missile and Munitions School, Redstone Arsenal, AL. *Version 2:* Signal School, Ft. Gordon, GA.

Length: *Version 1:* 32-33 weeks (1182-1183 hours). *Version 2:* 18-23 weeks (653-820 hours).

Exhibit Dates: *Version 1:* 10/90–1/96. *Version 2:* 1/90–9/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform high reliability precision soldering; inspect, test and repair printed circuit boards at the component level; and operate, troubleshoot, and repair automatic test equipment. *Version 2:* Upon completion of the course, the student will be able to perform high reliability precision soldering; inspect, test and repair printed circuit boards at the component level; and operate, troubleshoot, and repair automatic test equipment.

Instruction: *Version 1:* Lectures and practical experience in certified precision soldering; testing and inspecting printed circuit boards; and the use, operation, and maintenance of automatic test equipment. *Version 2:* Lectures and practical experience in certified precision soldering; testing and inspecting printed circuit boards; and the use, operation, and maintenance of automatic test equipment.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 4 semester hours in soldering techniques (5/90); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (5/90).

Related Occupations: 39B.

AR-1715-0851

COMMUNICATIONS-ELECTRONICS MAINTENANCE
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

Course Number: 1-29-C42 (29X).

Location: Signal School, Ft. Gordon, GA.

Length: 14-15 weeks (543 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to use microcomputers including using DOS, word processors, data bases, and spreadsheets; receive and send Army messages; prepare Army forms related to shop management; describe at the overview level a number of pieces of communications equipment.

Instruction: Lectures, practical exercises, and exams on the subject material.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy. See AR-1404-0035 for common core credit (7/89).

Related Occupations: 29X.

AR-1715-0852

TRI-TAC COMMUNICATIONS SECURITY
(COMSEC) EQUIPMENT FULL
MAINTENANCE

Course Number: 160-F27.

Location: Signal School, Ft. Gordon, GA.

Length: 4-5 weeks (151 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to troubleshoot and repair communications security equipment to the component level using automatic test equipment as well as conventional test instruments.

Instruction: Lectures and practical experience in fault isolation and maintenance of communications security equipment, including power supplies and analog subassemblies using the ST-34 automatic test equipment as well as conventional test sets.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (7/89).

AR-1715-0853

SATELLITE COMMUNICATIONS (SATCOM) AN/
USC-28(V) SET

Course Number: 102-F60.

Location: Signal School, Ft. Gordon, GA.

Length: 8 weeks (288 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to troubleshoot, and repair a satellite communications set.

Instruction: Lectures and laboratory exercises in the operation and maintenance of a satellite ground terminal.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hour in electronic systems troubleshooting and maintenance (7/92).

AR-1715-0854

SUPERVISOR SPECIAL ELECTRONIC DEVICES
REPAIRER BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: 198-39E30.

Location: Signal School, Ft. Gordon, GA.

Length: 8-11 weeks (318-398 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to explain the theory and operation of a microprocessor-controlled computer and use these and other concepts to assist subordinates in the maintenance of electronic equipment including night vision devices and chemical agent detection systems.

Instruction: Includes lectures and practical exercises in microprocessors, diagnostic testing, application of device theory and schematic diagrams to troubleshooting and repair of night vision devices, and chemical agent detection devices.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in microprocessors and 1 in electronic systems troubleshooting and maintenance. See AR-1406-0090 for common core credit (2/94).

Related Occupations: 39E.

AR-1715-0855

TRANSPORTABLE AUTOMATIC SWITCHING SYSTEMS
OPERATOR/MAINTAINER BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 622-36L30.

Location: Signal School, Ft. Gordon, GA.

Length: 9-10 weeks (351 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise personnel involved in switching network operations and maintenance and be able to troubleshoot and repair specific electronic equipment.

Instruction: Classroom and practical exercises involving military specific automatic message switching equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems troubleshooting and maintenance. See AR-1406-0090 for common core credit (7/89).

Related Occupations: 36L.

AR-1715-0856

CALIBRATION SPECIALIST BASIC NONCOMMISSIONED
OFFICER (NCO) (35H30)

Course Number: G2ASR32470 218
(35H30).

Location: Training Center, Lowry AFB, CO.

Length: 16-17 weeks (633-644 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate, maintain, calibrate, troubleshoot, and repair selected calibration standards and supervise, train, and lead subordinates in these duties.

Instruction: Classroom and laboratory exercises involving the calibration equipment.

Credit Recommendation: In the vocational certificate category, 3 semester hours in test equipment maintenance and calibration (5/90); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance, 1 in digital principles and 1 in microprocessors. For credit for the common see AR-1406-0090 (5/90).

Related Occupations: 35H.

AR-1715-0858

COMMUNICATIONS-ELECTRONICS TECHNICIAN
WARRANT OFFICER TECHNICAL
CERTIFICATION RESERVE COMPONENT
PHASES 2 AND 4

Course Number: 4C-286A-RC; 4C-256A-RC.

Location: Signal School, Ft. Gordon, GA.

Length: Phase 2, 2 weeks (96 hours); Phase 4, 2 weeks (96 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will perform in senior-level supervisory positions using managerial and leadership concepts and will be able to manage the maintenance of Army communications systems.

Instruction: Lectures, practical exercises, and tests on topics in logistics, record keeping, shop planning, and communications systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronic communications (7/89).

Related Occupations: 286A.

AR-1715-0859

TELECOMMUNICATIONS TECHNICIAN WARRANT
OFFICER TECHNICAL CERTIFICATION
RESERVE COMPONENT PHASES 2 AND 4

Course Number: Phases 2 and 4, 4C-250A-RC; Phases 2 and 4, 4C-290A-RC.

Location: Signal School, Ft. Gordon, GA.

Length: Phase 2, 2 weeks (96 hours); Phase 4, 2 weeks (96 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform in senior-level supervisory positions using managerial and leadership concepts and will be able to manage a telecommunications center.

Instruction: Lectures, practical exercises, and exams on topics in logistics, record keeping, planning and telecommunications systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (7/89).

Related Occupations: 290A

AR-1715-0860

COMMUNICATIONS ELECTRONICS REPAIR
TECHNICIAN SENIOR WARRANT OFFICER

Course Number: 4-11 C32-256A

Location: Signal School, Ft. Gordon, GA.

Length: 14 weeks (527 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will perform in senior-level supervisory positions using managerial concepts and leadership concepts; will be able to use computer hardware and software; and be able to troubleshoot and repair several specific Army communications systems.

Instruction: Lectures, practical exercises, and exams on the subjects taught. A core of leadership subjects is included.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in computer literacy, 3 in electronic systems troubleshooting and maintenance, and 1 in leadership. For those students who complete annex N, satellite communications equipment, 2 additional semester hours in satellite communications systems (7/92).

Related Occupations: 256A.

AR-1715-0867

AVIONIC FLIGHT SYSTEMS REPAIRER
(Avionic Navigation and Flight Control
Equipment Repairer)

Course Number: 102-35M10; 102-68Q10.

Location: Signal School, Ft. Gordon, GA.

Length: 21-24 weeks (779-912 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify series, parallel and series/parallel circuits, and determine values of resistance, voltage, and current in the circuits; comprehend concepts of alternating current including frequency, phase, and reactance; explain concepts of series and parallel resonance and basics of transformer operation; explain the basic operation of semiconductors, junction diodes, and bipolar transistors, and identify their use in rectifier circuits and voltage regulators; troubleshoot and explain the operation of basic transistor amplifiers, power amplifiers, and operational amplifiers; explain the operation of FETs, SCRs, and UJT's, and troubleshoot and explain the operation of sinewave oscillator, multivibrator circuits, and Schmitt trigger circuits; explain principles of communication using amplitude modulation techniques; trace signal path, troubleshoot, and align receivers and transmitters; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers, and counters; and solder and desolder wire to various types of electronic terminals.

Instruction: Includes electrical, electronic, digital, and communications non-calculus-based theory; hands-on evaluation and maintenance procedures of complex electronic systems with dedicated specialized test equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in soldering (7/92); in the lower-division baccalaureate/

associate degree category, 1 semester hour in AC circuits, 1 in DC circuits, 3 in solid state electronics, 2 in electronic communications, 3 in electronic systems troubleshooting and maintenance, and 3 in aircraft control augmentation (7/92).

Related Occupations: 35M, 68Q

AR-1715-0868

1. AVIONIC COMMUNICATION EQUIPMENT REPAIRER
2. AVIONIC COMMUNICATIONS EQUIPMENT
REPAIRER

Course Number: Version 1: 102-68L10.

Version 2: 102-35L10; 102-68L10.

Location: Signal School, Ft. Gordon, GA.

Length: Version 1: 25-26 weeks (930 hours). Version 2: 23-26 weeks (875-980 hours).

Exhibit Dates: Version 1: 10/91-Present.
Version 2: 1/90-9/91.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to identify series, parallel, and series/parallel circuits, determine values of resistance, voltage, and current in the circuits; comprehend concepts of alternating current including frequency, phase, and reactance; explain concepts of series and parallel resonance and basics of transformer operation; explain the basic operation of semiconductors, junction diodes and bipolar transistors and identify their use in rectifier circuit and voltage regulators; troubleshoot and explain the operation of basic transistor amplifier, power amplifier and operational amplifier; explain the operation of FETs, SCRs, and UJT's, and troubleshoot and explain the operations of sinewave oscillators, multivibrator circuits, and Schmitt trigger circuits; comprehend single sideband communication techniques, including signal tracing and alignment of receiver and transmitter; explain principles of communication amplitude modulation techniques; trace signal path, troubleshoot, and align receivers and transmitters; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers, and counters; explain the theory and operation of microprocessor-based computers, including the concepts of buses, memory, control signals, and addressing; and solder and desolder wire to various types of electronic terminals. This version is pending evaluation. Version 2: Upon completion of the course, the student will be able to identify series, parallel, and series/parallel circuits, determine values of resistance, voltage, and current in the circuits; comprehend concepts of alternating current including frequency, phase, and reactance; explain concepts of series and parallel resonance and basics of transformer operation; explain the basic operation of semiconductors, junction diodes and bipolar transistors and identify their use in rectifier circuit and voltage regulators; troubleshoot and explain the operation of basic transistor amplifier, power amplifier and operational amplifier; explain the operation of FETs, SCRs, and UJT's, and troubleshoot and explain the operations of sinewave oscillators, multivibrator circuits, and Schmitt trigger circuits; comprehend single sideband communication techniques, including signal tracing and alignment of receiver and transmitter; explain principles of communication amplitude modulation techniques; trace signal path, troubleshoot, and align receivers and transmitters; convert between and perform

arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers, and counters; explain the theory and operation of microprocessor-based computers, including the concepts of buses, memory, control signals, and addressing, and solder and desolder wire to various types of electronic terminals.

Instruction: Version 1: Includes electrical, electronic, and communications non-calculus theory, hands-on evaluation and maintenance procedures of very high frequency and ultra-high frequency communication equipment, standard lightweight avionic installations, and frequency modulated communication equipment. This version is pending evaluation. Version 2: Includes electrical, electronic, and communications non-calculus theory; hands-on evaluation and maintenance procedures of very high frequency and ultra-high frequency communication equipment, standard lightweight avionic installations, and frequency modulated communication equipment.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the vocational certificate category, 2 semester hours in soldering (4/90); in the lower-division baccalaureate/associate degree category, 1 semester hour in AC circuits, 1 in DC circuits, 3 in solid state electronics, 3 in electronic communications, 1 in digital fundamentals, 1 in microprocessors, and 3 in electronic systems troubleshooting and maintenance (4/90).

AR-1715-0869

ELECTRONIC WARFARE (EW)/INTERCEPT AERIAL
SENSOR REPAIRER PHASE 2

Course Number: 102-33V10; 104-33V10.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 19-22 weeks (608-687 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to maintain, troubleshoot, and repair a radar surveillance set, a radar data receiving set, a data system and an infrared countermeasures set.

Instruction: Lectures and practical exercises with emphasis on troubleshooting and repair of the equipment listed above.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (6/90).

Related Occupations: 33V.

AR-1715-0870

JOINT SURVEILLANCE TARGET ATTACK RADAR
SYSTEM (JSTARS) GROUND STATION
MODULE (GSM) OPERATOR/SUPERVISOR

Course Number: Version 1: 242-F5. Version 2: 242-F5.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: Version 1: 12 weeks (439 hours). Version 2: 5-12 weeks (180 hours).

Exhibit Dates: Version 1: 1/91-Present. Version 2: 1/90-12/90.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to operate a specific military surveillance radar. Version 2: Upon completion of the course, the student will be able to operate a specific military surveillance radar.

Instruction: *Version 1:* Lectures and practical exercises focused on the use and operation of the surveillance radar. The first seven weeks of this course is contractor-taught and was not evaluated. *Version 2:* Lectures and practical exercises focused on the use and operation of the surveillance radar. The first seven weeks of this course is contractor-taught and was not evaluated.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* Credit is not recommended because of the military-specific nature of the course (6/90).

AR-1715-0871

SPECIAL ELECTRONIC MISSION AIRCRAFT (SEMA)
COMMON CORE

Course Number: 2C-15C/2B.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 2 weeks (70-71 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will perform as an aviator in special aircraft used in military intelligence.

Instruction: Lectures and practical exercises on topics in military intelligence, surveillance radar, and threats to aircraft.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/90).

AR-1715-0872

ADVANCED MOBILE SUBSCRIBER EQUIPMENT
(MSE) NODE SWITCH/LARGE EXTENSION
NODE SWITCH OPERATOR

Course Number: 160-ASIV4 (CT).

Location: Signal School, Ft. Gordon, GA.

Length: 3 weeks (117 hours).

Exhibit Dates: 2/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to initialize, modify and troubleshoot links in the communications system.

Instruction: Lectures and practical exercises on the operating and troubleshooting of switch links.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (6/90).

AR-1715-0873

MOBILE SUBSCRIBER EQUIPMENT (MSE) SYSTEMS
MAINTAINER

Course Number: 101-ASIV8 (29M) (CT).

Location: Signal School, Ft. Gordon, GA.

Length: 3-4 weeks (121 hours).

Exhibit Dates: 1/90–12/91.

Learning Outcomes: Upon completion of the course, the student will be able to troubleshoot, align, and repair radio and associated communications equipment.

Instruction: Lectures and practical exercises on the functional characteristics and maintenance of radio access unit, line-of-sight, and down-the-hill super high frequency electronic communications equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in systems troubleshooting and maintenance (6/90).

Related Occupations: 29M.

AR-1715-0874

1. TELECOMMUNICATIONS COMPUTER OPERATOR-MAINTAINER
2. AUTOMATED COMMUNICATIONS COMPUTER SYSTEMS REPAIRER
3. AUTOMATED COMMUNICATIONS COMPUTER SYSTEMS REPAIRER

Course Number: *Version 1:* 150-74G10. *Version 2:* 150-39G10. *Version 3:* 150-39G10.

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 25 weeks (914 hours). *Version 2:* 28-29 weeks (1036 hours). *Version 3:* 28-29 weeks (1036 hours).

Exhibit Dates: *Version 1:* 10/94–Present. *Version 2:* 3/93–9/94. *Version 3:* 2/90–2/93.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to identify series, parallel, and series/parallel resistive circuits and determine values of resistance, voltage, and current in the circuit; calculate values of voltage and current in reactive AC circuits; explain the basic operation of semiconductors, junction diodes, and transistors and identify their use in rectifier circuits and voltage regulators; troubleshoot and explain the operation of basic transistor amplifiers and power amplifiers; identify operational amplifiers; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers, and counters; explain the theory and operation of microprocessor-based computers, including the concepts of busses, memory, control signals, and addressing; explain how a microcomputer performs arithmetic and logic operations; use machine language instructions; solder and desolder wires, cables, and terminals; troubleshoot and repair video display terminals, printers, card punch readers, magnetic tape units, and hard disk drives. *Version 2:* Upon completion of the course, the student will be able to identify series, parallel, and series/parallel resistive circuits and determine values of resistance, voltage, and current in the circuit; calculate values of voltage and current in reactive AC circuits; explain the basic operation of semiconductors, junction diodes, and transistors and identify their use in rectifier circuits and voltage regulators; troubleshoot and explain the operation of basic transistor amplifiers and power amplifiers; identify operational amplifiers; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers, and counters; explain the theory and operation of microprocessor-based computers, including the concepts of busses, memory, control signals, and addressing; explain how a microcomputer performs arithmetic and logic operations; use machine language instructions; solder and desolder wires, cables, and terminals; troubleshoot and repair video display terminals, printers, card punch readers, magnetic tape units, and hard disk drives. *Version 3:* Upon completion of the course, the student will be able to identify series, parallel and series/parallel resistive circuits and determine values of resistance, voltage, and current in the circuit; calculate values of voltage and current in reactive AC circuits; explain the basic operation of semiconductors, junction diodes, and transistors and identify their use in rectifier circuits and voltage regulators; troubleshoot and explain the operation of basic transistor amplifiers and power amplifiers;

identify operational amplifiers; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers and counters; explain the theory and operation of microprocessor-based computers including the concepts of busses, memory, control signals, and addressing; explain how a microcomputer performs arithmetic and logic operations; use machine language instructions; solder and desolder electronic components to printed circuit boards; troubleshoot and repair video display terminals, printers, card punch readers, magnetic tape units, and hard disk drives.

Instruction: *Version 1:* This version is pending evaluation. Lectures and practical exercises related to topics in basic electronics and to the troubleshooting and repair of a computer system. *Version 2:* Lectures and practical exercises related to topics in basic electronics and to the troubleshooting and repair of a computer system. *Version 3:* Lectures and practical exercises related to topics in basic electronics and to the troubleshooting and repair of a computer system.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 1 semester hour in soldering techniques (2/94); in the lower-division baccalaureate/associate degree category, 3 semester hours in DC/AC circuits, 2 in solid state electronics, 1 in digital fundamentals, 2 in microprocessors, 3 in basic electronics laboratory, and 3 in computer systems troubleshooting and maintenance (2/94). *Version 3:* In the vocational certificate category, 2 semester hours in soldering techniques (6/90); in the lower-division baccalaureate/associate degree category, 1 semester hour in AC circuits, 1 in DC circuits, 2 in solid state electronics, 1 in digital fundamentals, 2 in microprocessors, 3 in basic electronics laboratory, and 3 in computer systems troubleshooting and maintenance (6/90).

Related Occupations: 39G; 74G.

AR-1715-0875

MOBILE SUBSCRIBER EQUIPMENT (MSE) SYSTEM
PLANNER/SYSTEM CONTROL CENTER
OPERATOR

Course Number: 260-ASIY3 (CT).

Location: Signal School, Ft. Gordon, GA.

Length: 11-12 weeks (410 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate, troubleshoot, and maintain the control center of an electronic communications system.

Instruction: Lectures and practical exercises related to the specific equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in systems troubleshooting and maintenance (6/90).

AR-1715-0876

MOBILE SUBSCRIBER EQUIPMENT (MSE) CENTRAL
OFFICE REPAIRER

Course Number: 622-ASIV8 (29N) (CT).

Location: Signal School, Ft. Gordon, GA.

Length: 7 weeks (276 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to locate and repair faults in telephone central office switching equipment.

Instruction: Lectures and practical exercises on the functional operation, technical characteristics, and maintenance of network switch, controllers, timing equipment, power equipment, and processing equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (6/90).

AR-1715-0877

TACTICAL SATELLITE/MICROWAVE REPAIRER
TRANSMISSION

Course Number: 113-29M10(T)-HTRTS-M.

Location: High Tech Regional Training Site, Sacramento, CA; High Tech Regional Training Site, Tobyhanna, PA.

Length: 2 weeks (80 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to troubleshoot, repair, and maintain a satellite/microwave system.

Instruction: Lectures and practical exercises on troubleshooting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (6/90).

AR-1715-0878

DS/GS TEST AND REPAIR STATION MAINTENANCE
(AH-64)

Course Number: 201-ASIX1; 198-ASIX1.

Location: Signal School, Ft. Gordon, GA.

Length: 13-15 weeks (468-545 hours).

Exhibit Dates: 3/90–Present.

Learning Outcomes: Before 3/90 see AR-1715-0596. Upon completion of the course, the student will be able to troubleshoot, repair, and maintain specific electronic test equipment.

Instruction: Lectures and practical exercises on troubleshooting and repairing the specific equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (7/91).

AR-1715-0879

COMMUNICATIONS SYSTEMS/CIRCUIT CONTROLLER
(RC)

Course Number: 113-31N10-RC.

Location: Various locations, US and overseas.

Length: 2-3 weeks (72-91 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to install and test cabled communications systems using basic electronic test instruments to test and troubleshoot.

Instruction: Lectures and practical exercises on the specific communication system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronics laboratory (6/90).

Related Occupations: 31N.

AR-1715-0880

MASTER OPERATOR MANEUVER CONTROL SYSTEM

Course Number: 4C-F41/101-F29.

Location: Signal School, Ft. Gordon, GA.

Length: 3 weeks (108 hours).

Exhibit Dates: 4/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise the installation, operation, and maintenance of the maneuver control system.

Instruction: Lectures and practical exercises on the maneuver control system.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (7/92).

AR-1715-0881

TACTICAL TELECOMMUNICATIONS CENTER
OPERATOR BASIC NONCOMMISSIONED
OFFICER (NCO) AUTOMATIC DATA
(Telecommunications Center Operator Basic
Noncommissioned Officer (NCO))

Course Number: 260-72E20; 260-72G20.

Location: Signal School, Ft. Gordon, GA.

Length: 7-8 weeks (276 hours).

Exhibit Dates: 1/90–12/90.

Learning Outcomes: Upon completion of the course, the student will be able to supervise the installation, operation, and maintenance of tactical telecommunications centers.

Instruction: Lectures and practical exercises focused on operating a tactical telecommunications system.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (6/90).

Related Occupations: 72E; 72G.

AR-1715-0882

TELECOMMUNICATIONS TERMINAL DEVICE
REPAIRER SUSTAINMENT

Course Number: 113-29J10-HTRTS-M.

Location: High Tech Regional Training Site, Sacramento, CA; High Tech Regional Training Site, Tobyhanna, PA.

Length: 2 weeks (80 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to install, troubleshoot, and maintain the digital telecommunications system.

Instruction: Lectures and practical exercises on troubleshooting and maintaining digital terminal devices.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (6/90).

Related Occupations: 29J.

AR-1715-0883

DAS3 COMPUTER SYSTEMS REPAIRER

Course Number: 150-39D10.

Location: Signal School, Ft. Gordon, GA.

Length: 22-26 weeks (819-914 hours).

Exhibit Dates: 1/90–12/92.

Learning Outcomes: Upon completion of the course, the student will be able to identify series, parallel and series/parallel resistive circuits and determine values of resistance, voltage and current in the circuit; recognize the meaning of frequency, period, sine wave, phase shift, inductance, reactance, capacitive reactance, and impedance; calculate voltages and currents in transformers and in reactive circuits; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number

systems; analyze logic circuits, flip-flop circuits, registers, and counters; explain how a microcomputer performs arithmetic and logic operations; use machine language instructions; explain the theory and operation of microprocessor-based computers including the concepts of buses, memory, control signals, and addressing; able to use basic electronic laboratory equipment; able to troubleshoot, maintain, and repair computer peripherals including printers, card readers, magnetic tape units, and hard disks.

Instruction: Lectures and practical exercises in electronics and computer peripherals.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 1 in DC circuits, 1 in AC circuits, 1 in digital principles, 2 in microprocessors, and 3 in electronic systems troubleshooting and maintenance (6/90).

Related Occupations: 39D.

AR-1715-0884

MOBILE SUBSCRIBER EQUIPMENT (MSE)
TRANSMISSION SYSTEM OPERATOR

Course Number: 260-31D10 (CT).

Location: Signal School, Ft. Gordon, GA.

Length: 9-10 weeks (348 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to install, operate, and maintain transmission equipment.

Instruction: Lectures and exercises on the operation and maintenance of transmission equipment.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/90).

Related Occupations: 31D.

AR-1715-0885

MOBILE SUBSCRIBER EQUIPMENT (MSE) SYSTEMS
MAINTAINER

Course Number: 201-ASIV8 (29E) (CT).

Location: Signal School, Ft. Gordon, GA.

Length: 2-3 weeks (80 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to explain the theory of operation of, and will be able to maintain and repair, single channel radios and associated electronic equipment.

Instruction: Lectures and practical exercises on the direct support maintenance and repair of the logic unit, radio control unit, radio subassemblies, and power unit of single channel radios.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in systems troubleshooting and maintenance (6/90).

Related Occupations: 29E.

AR-1715-0886

ELECTRONIC SWITCHING SYSTEM OPERATOR
(Mobile Subscriber Equipment (MSE) Network Switching System Operator)

Course Number: 260-31F10 (CT); 260-31F10.

Location: Signal School, Ft. Gordon, GA.

Length: 10-15 weeks (375-508 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to install operate, troubleshoot, and maintain the mobile subscriber equipment network switching system.

Instruction: Lectures and demonstrations on skills necessary to perform operator/organizational maintenance on MSE switching equipment.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (2/94).

Related Occupations: 31F.

AR-1715-0887

AH-1 AIRCRAFT ARMAMENT MAINTENANCE
TECHNICIAN

Course Number: 4D-SQIE (AH-1).

Location: Aviation Logistics School, Ft. Eustis, VA.

Length: 10 weeks (366 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise maintenance and repair of armament systems and troubleshoot and repair electronic systems.

Instruction: Lectures and practical experience in repair, maintenance, and troubleshooting of electronic armament systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in administrative management and 3 in electronic systems troubleshooting and maintenance (6/91).

AR-1715-0888

STRATEGIC SYSTEMS REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 102-33Y30.

Location: Intelligence School, Ft. Devens, MA.

Length: 17-18 weeks (641 hours).

Exhibit Dates: 1/91–3/94.

Learning Outcomes: Upon completion of the course, the student will understand and be able to perform tests, alignment, calibration, and analysis of communications receivers, detectors, and signal processing circuits, and will perform diagnostics and maintenance of minicomputers, and maintenance of computer systems.

Instruction: Laboratory exercises utilizing test instruments, diagnostic algorithms and experimental analysis methods for communications circuit evaluation and computer systems repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer systems maintenance and 2 in personnel management. See AR-1406-0090 for common core credit (6/91); in the upper-division baccalaureate category, 2 semester hours in electronic communications laboratory (6/91).

Related Occupations: 33Y.

AR-1715-0889

STRATEGIC SYSTEMS REPAIRER

Course Number: Version 1: 102-33Y10. Version 2: 102-33Y10.

Location: Version 1: Intelligence Center and School, Ft. Huachuca, AZ. Version 2: Intelligence School, Ft. Devens, MA.

Length: Version 1: 43 weeks (1552 hours). Version 2: 40 weeks (1497 hours).

Exhibit Dates: Version 1: 10/93–Present. Version 2: 10/91–9/93.

Learning Outcomes: Version 1: Upon completion of the course, the student will understand the theory, system concepts, circuit design, and laboratory experimentation with linear and digital solid-state electronics, analog communications, 8-bit microcomputer hardware and organization with assembly-language programming, and microcomputer peripherals including A/D and D/A converters. Version 2: Upon completion of the course, the student will understand the theory, system concepts, circuit design, and laboratory experimentation with linear and digital solid-state electronics, analog communications, 8-bit microcomputer hardware and organization with assembly-language programming, and microcomputer peripherals including A/D and D/A converters.

Instruction: Version 1: Lecture, demonstration, computer-assisted instruction, and laboratory exercises on solid-state devices and circuits, communications systems, analog and digital electronics, and 8-bit microcomputer hardware and software including I/O devices. Version 2: Lecture, demonstration, computer-assisted instruction, and laboratory exercises on solid-state devices and circuits, communications systems, analog and digital electronics, and 8-bit microcomputer hardware and software including I/O devices.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the vocational certificate category, 3 semester hours in computer system maintenance (7/91); in the lower-division baccalaureate/associate degree category, 3 semester hours in digital logic, 3 in AC and DC circuits, and 3 in analog communications (7/91); in the upper-division baccalaureate category, 3 in operational amplifiers and applications and 3 in introduction to microcomputers (7/91).

Related Occupations: 33Y.

AR-1715-0890

ELECTRONIC WARFARE (EW)/INTERCEPT AERIAL
SENSOR REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)
PHASE 2

Course Number: Version 1: 102-33V30. Version 2: 102-33V30.

Location: Intelligence School, Ft. Devens, MA.

Length: Version 1: 6 weeks (223-224 hours). Version 2: 10 weeks (359 hours).

Exhibit Dates: Version 1: 1/91–3/94. Version 2: 1/90–12/90.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to supervise personnel in the operation of sophisticated electronic equipment. Version 2: Upon completion of the course, the student will understand and perform experiments on communications circuits to determine modulated waveform types, signal-to-noise ratio, and bit error rates.

Instruction: Version 1: Lectures, demonstration, and practical exercises in counseling, personnel supervision, and in operations management. Version 2: Laboratory exercises utilizing test instruments and experimental methods for the evaluation of digital communications systems.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel management. See AR-1406-0090 for common core credit (7/91). Version 2: In the lower-division baccalaureate/associate degree category, 1 semester hour in operations management. See AR-1406-0090 for common core credit (7/91); in the upper-division baccalaureate category, 2 semester hours in electronics communications laboratory (7/91).

Related Occupations: 33V.

AR-1715-0891

WIDEBAND COLLECTION SYSTEM MAINTENANCE

Course Number: 102-F63.

Location: Intelligence School, Ft. Devens, MA.

Length: 5 weeks (180 hours).

Exhibit Dates: 1/91–3/94.

Learning Outcomes: Upon completion of the course, the student will be able to maintain and repair the wideband collection system down to the faulty component.

Instruction: Lecture, discussion, and practical exercises in troubleshooting wideband collection system, RF collection groups, signal monitor and quality groups, recording and tape quality control groups, and system test and maintenance groups.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics maintenance and repair (6/91).

AR-1715-0892

SPECIAL PURPOSE COUNTERMEASURES SYSTEM AN/
ALQ-151(V)2 OPERATOR

Course Number: 231-F26.

Location: Intelligence School, Ft. Devens, MA.

Length: 2 weeks (75-76 hours).

Exhibit Dates: 10/90–12/90.

Learning Outcomes: Upon completion of the course, the student will be able to check and operate special electronic countermeasures equipment.

Instruction: Lectures, audio-visual presentation, demonstration, and performance exercises in the pre-operation, testing, and operation of specialized electronic equipment.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course, which is operational, and neither theory nor laboratory oriented (6/91).

AR-1715-0893

IMPROVED GUARDRAIL V OPERATOR

Course Number: 231-F24.

Location: Intelligence School, Ft. Devens, MA.

Length: 5 weeks (184 hours).

Exhibit Dates: 1/90–3/94.

Learning Outcomes: Upon completion of the course, the student will be able to operate special electronic equipment for the acquisition and analysis of electronic signals.

Instruction: Lectures, presentation, demonstrations, computer assisted instruction, and performance exercises in the operation of specialized electronic equipment.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course which is operational and neither theory nor laboratory oriented (6/91).

AR-1715-0894

LAND COMBAT MISSILE SYSTEMS TECHNICIAN
WARRANT OFFICER TECHNICAL AND
TACTICAL CERTIFICATION RESERVE
(PHASES 2 AND 4)

Course Number: 4F-912A-RC

Location: Missile and Munitions School,
Redstone Arsenal, AL

Length: 3-4 weeks (331 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to demonstrate a knowledge of electronics systems maintenance and electronics shop management skills.

Instruction: Includes lectures and practical exercises in the maintenance troubleshooting, repair and calibration associated with night sight, TOW 1, TOW 2 systems, Dragon and multiple launch rocket systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronic systems maintenance and 1 in electronic shop management (8/91).

AR-1715-0896

1. AMMUNITION SPECIALIST (PHASE 3) BASIC
NONCOMMISSIONED OFFICER (NCO)
RESERVE
2. AMMUNITION SPECIALIST (PHASE 2) BASIC
NONCOMMISSIONED OFFICER (NCO)
RESERVE

Course Number: *Version 1:* 645-55B30.
Version 2: 645-55B30.

Location: Missile and Munitions School,
Redstone Arsenal, AL

Length: *Version 1:* 88 hours. *Version 2:* 1-2 weeks (116-120 hours).

Exhibit Dates: *Version 1:* 10/92-Present.
Version 2: 1/90-9/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to identify, receive, store, issue and destroy ammunition, use a computer for ammunition inventory and direct fire fighting and rewarehousing operations. *Version 2:* Upon completion of the course, the student will be able to identify, receive, store, issue and destroy ammunition, use a computer for ammunition inventory and direct fire fighting and rewarehousing operations.

Instruction: *Version 1:* Lectures and practical exercises in ammunition identification, emergency destruction techniques, automated inventory procedures and supervising of ammunition handling and rewarehousing operations. *Version 2:* Lectures and practical exercises in ammunition identification, emergency destruction techniques, automated inventory procedures and supervising of ammunition handling and rewarehousing operations.

Credit Recommendation: *Version 1:* Credit is not recommended because of the military-specific nature of the course (8/91). *Version 2:* Credit is not recommended because of the military-specific nature of the course (8/91).

AR-1715-0897

1. MFAD TECHNICIAN WARRANT OFFICER
TECHNICAL/TACTICAL CERTIFICATION
2. SHORADS DIRECT SUPPORT/GENERAL
SUPPORT (DS/GS) MAINTENANCE REPAIR
TECHNICIAN

Course Number: *Version 1:* 4F-917A. *Version 2:* 4F-SQIV

Location: Missile and Munitions School,
Redstone Arsenal, AL

Length: *Version 1:* 22 weeks (807 hours)
Version 2: 19-20 weeks (721 hours)

Exhibit Dates: *Version 1:* 10/91-Present
Version 2: 1/90-9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to demonstrate shop management skills, troubleshoot electronic circuits and logic circuits; understand computer architecture and operation, understand the operation of microprocessors and demonstrate soldering techniques. This version is pending evaluation. *Version 2:* Upon completion of the course, the student will be able to demonstrate shop management skills, troubleshoot electronic circuits and logic circuits; understand computer architecture and operation; understand the operation of microprocessors and demonstrate soldering techniques.

Instruction: *Version 1:* Lectures and practical exercises in soldering techniques, digital logic circuits, computer operation and architecture and microprocessors, and theoretical and practical exercises in shop management skills. This version is pending evaluation. *Version 2:* Lectures and practical exercises in soldering techniques, digital logic circuits, computer operation and architecture and microprocessors, and theoretical and practical exercises in shop management skills.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 2 semester hours in soldering techniques (8/91); in the lower-division baccalaureate/associate degree category, 3 semester hours in digital logic, 2 in computer operation and architecture, and 2 in microprocessors (8/91).

AR-1715-0899

LAND COMBAT MISSILE SYSTEMS TECHNICIAN
WARRANT OFFICER TECHNICAL AND
TACTICAL CERTIFICATION

Course Number: *Version 1:* 4F-912A. *Version 2:* 4F-912A.

Location: Missile and Munitions School,
Redstone Arsenal, AL

Length: *Version 1:* 28 weeks (1025 hours).
Version 2: 18-20 weeks (683-710 hours).

Exhibit Dates: *Version 1:* 10/92-Present.
Version 2: 1/90-9/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to troubleshoot, test and repair electronic and logic circuits, computers and microprocessors; to test and repair Bradley TOW 1/TOW 2, Dragon, night sight, and multiple launch rocket system electronic subsystem; perform shop management tasks such as planning, supervising and reporting daily shop operations. This version is pending evaluation. *Version 2:* Upon completion of the course, the student will be able to troubleshoot, test and repair electronic and logic circuits, computers and microprocessors; to test and repair Bradley TOW 1/TOW 2, Dragon, night sight, and multiple launch rocket system electronic subsystem; perform shop management tasks such as planning, supervising and reporting daily shop operations.

Instruction: *Version 1:* Includes a balanced program of lecture and practical experiences with standard training equipment including

computer, microprocessor and power supply trainers, specific subsystems and associated test equipment. This version is pending evaluation. *Version 2:* Includes a balanced program of lecture and practical experiences with standard training equipment including computer, microprocessor and power supply trainers, specific subsystems and associated test equipment.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in microprocessors, 3 in computer operation and architecture, 3 in shop management, and 3 in electronic system maintenance (8/91).

AR-1715-0900

LAND COMBAT MISSILE SYSTEMS REPAIR
TECHNICIAN SENIOR WARRANT OFFICER

Course Number: 4-9-C32-912A.

Location: Missile and Munitions School,
Redstone Arsenal, AL

Length: 8-9 weeks (319 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to check, inspect and evaluate the immediate maintenance on land combat missile systems.

Instruction: The course contains lecture and practical exercises in the management of the maintenance of the Dragon, Tow 2, Multiple Launch Rocket System, and Land Combat Support Systems and associated test equipment.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/91).

AR-1715-0901

HAWK ADVANCED NONCOMMISSIONED OFFICER
(NCO)

Course Number: 1-27-C42C.

Location: Missile and Munitions School,
Redstone Arsenal, AL

Length: 6 weeks (217 hours).

Exhibit Dates: 4/90-1/96.

Learning Outcomes: Upon completion of the course, the student will be able to manage a missile maintenance support organization.

Instruction: Lectures and practical experience on the organization, planning, and direction of a missile maintenance organization.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (8/91).

AR-1715-0902

LAND COMBAT ADVANCED NONCOMMISSIONED
OFFICER (NCO)

Course Number: 1-27-C42A.

Location: Missile and Munitions School,
Redstone Arsenal, AL

Length: 15 weeks (551 hours).

Exhibit Dates: 4/90-1/96.

Learning Outcomes: Upon completion of the course, the student will be able to perform the duties of a platoon sergeant; demonstrate leadership skill; complete forms; will have hands-on experience with automated information; will be able to direct maintenance on Land Combat Support Systems, such as TOW, DRAGON, Lance, MLRS; and will be able to prepare and execute a field training exercise.

Instruction: A balance of lecture and practical exercises in leadership skill involving the

teaching and direction of field training in the Land Combat Support Systems.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (8/91).

AR-1715-0903

AIR DEFENSE (SHORADS) ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: 1-27-C42B.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 13-14 weeks (484-487 hours).

Exhibit Dates: 4/90-1/96.

Learning Outcomes: Upon completion of the course, the student will demonstrate the knowledge required to direct the maintenance of various missile and radar systems and auxiliary equipment.

Instruction: The course includes lecture and practical exercises in material management, testing, troubleshooting and repair of the Vulcan, Chaparral/Redeye, FAAR systems and auxiliary equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronic system maintenance and 1 in shop management skills. See AR-1404-0035 for common core credit (8/91).

AR-1715-0904

HAWK FIRE CONTROL/CONTINUOUS (CW) WAVE
RADAR REPAIRER TRANSITION

Course Number: 104-27KIT/2T/3T/4T.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 19-20 weeks (711 hours).

Exhibit Dates: 3/90-1/96.

Learning Outcomes: Upon completion of the course, the student will understand the operation of 8-bit microprocessors to the CPU register level, including memory organization, address decoding, I/O circuits, and common I/O peripherals; program at the assembly code level, and execute and debug assembly language programs; troubleshoot and repair microprocessor-based systems to the PC board and component level; understand the principal components of a fire-control radar system including radar transmitter, fire-control servo systems; and be able to operate and maintain a radar based fire-control system.

Instruction: Lectures covering binary math, logic devices, computer circuits and computer assembly language programming radar systems, and radar signal processing and antenna servomechanism components. Practical exercises on maintaining, troubleshooting, and repair of radar systems, radar signal processing systems, and antenna positioning systems are included.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting, 3 in introduction to radar systems and signal processing, 4 in computer organization, 2 in microprocessor laboratory, 3 in computer system troubleshooting, and 1 semester hour in servomechanism laboratory (8/91).

AR-1715-0905

HAWK FIRE CONTROL/CONTINUOUS WAVE (CW)
RADAR REPAIRER

Course Number: 104-27K10 (PIP 3).

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 45 weeks (1800 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to apply basic DC and AC circuit theory to troubleshooting and repair of computer and radar based electronic systems; understand the operation of linear, digital, and computer circuits to be able to maintain, troubleshoot, and repair computer and radar based electronic systems to the module and component level; apply standard soldering and printed circuit board repair techniques to the repair of electronic assemblies.

Instruction: Lectures covering fundamental operation of passive and active electronic components, digital logic gates and computer circuits, and computer programming concepts. Practical exercises on soldering, troubleshooting, computer based systems and troubleshooting CW radar systems.

Credit Recommendation: In the vocational certificate category, 1 semester hour in soldering techniques (8/91); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer system troubleshooting, 3 in radar system troubleshooting, 3 in basic electricity, 3 in solid state devices, 6 in computer organization and operation, and 3 semester hours in electronic systems troubleshooting (8/91).

Related Occupations: 27K.

AR-1715-0906

HAWK MAINTENANCE CHIEF (PIP 3)

Course Number: 4F-F12/121-F27 (PIP 3).

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 34-35 weeks (1253 hours).

Exhibit Dates: 2/90-1/96.

Learning Outcomes: Upon completion of the course, the student will understand the organization operation, programming and troubleshooting of digital computer systems; understand the operation of CW, pulse, and phased array radar systems and associated signal processing systems; troubleshoot and repair pulse, phased array and CW radar systems and associated signal processing, power generation/distribution and mechanical hydraulic systems.

Instruction: Lectures, demonstrations, and practical exercises in digital computer organization, operation, programming and troubleshooting; pulse, CW, and phased array radar receivers/transmitters and associated signal processing systems, and missile launcher electro-mechanical and hydraulic systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer organization and operation, 4 in continuous wave, pulse, and phased array radar systems, 3 in computer system troubleshooting, and 3 in electronic system troubleshooting (8/91).

AR-1715-0907

HAWK FIRING SECTION REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 121-27H30.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 19 weeks (741 hours).

Exhibit Dates: 4/90-1/96.

Learning Outcomes: Upon completion of the course, the student will understand logic devices, circuits, and the organization of digital computer systems; know how to write, debug, and execute assembly language programs; demonstrate troubleshooting skills on computer based systems; troubleshoot electronic systems to the module and component level; troubleshoot computer based signal processing systems to the module and component level; troubleshoot CW radar based electronic systems to the component level.

Instruction: Instruction includes lectures, demonstrations, and performance exercises in digital logic devices, logic circuits, computer organization, computer programming, and troubleshooting of computers and computer based signal processing systems. CW radar systems and troubleshooting of CW based radar systems and electronic signal processing systems operation and troubleshooting are included.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer organization and operation, 3 in computer system troubleshooting, 3 in electronic system troubleshooting, and 3 semester hours in CW radar system organization. See AR-1406-0090 for common core credit (8/91).

Related Occupations: 27H.

AR-1715-0908

NUCLEAR WEAPONS SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 644-55F30.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 7-8 weeks (261 hours).

Exhibit Dates: 10/91-1/96.

Learning Outcomes: Upon completion of the course, the student will be able to direct and train personnel performing the assembly, disassembly, maintenance, calibration, test and inspection of test equipment and nuclear weapons.

Instruction: Lectures and practical experiences covering inspection and maintenance of nuclear weapons.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (8/91).

Related Occupations: 55F.

AR-1715-0909

HAWK FIRING SECTION REPAIRER

Course Number: 121-27H10.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 28 weeks (1064 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will understand basic electrical DC and AC circuit theory and the operation of solid state active devices and circuits; student will be able to troubleshoot and repair electrical, electronic, and hydraulic systems to the module and component level.

Instruction: Lectures and practical exercises geared to a thorough working knowledge of DC and AC circuits and parallel resistive circuits; characteristics of inductors and capacitors; principles of transformers; the RL, RC, and RLC circuits and vacuum tube and semiconductor devices and their applications. Emphasis is on electrical, mechanical, and

hydraulic system maintenance, inspection, testing, and repair of the Improved Hawk and associated test equipment.

Credit Recommendation: In the vocational certificate category, 1 semester hour in soldering techniques (8/91); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in solid state devices, 3 in electronic systems troubleshooting, and 3 in hydraulic systems maintenance and repair (8/91).

Related Occupations: 27H.

AR-1715-0911

SIGNAL INTELLIGENCE/ELECTRONIC WARFARE
(SIGINT/EW) OFFICER (AST-35G)

Course Number: 3B-F16 (35G).

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 5 weeks (176 hours).

Exhibit Dates: 7/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to conduct intelligence operations involving electronic signals and electronic warfare data sources.

Instruction: Lectures and practical exercises involving signal types and identification, and the means to collect, organize, and apply these signals to military intelligence operations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/93).

AR-1715-0912

OV/RV-1D (MOHAWK) SYSTEM QUALIFICATION

Course Number: 2C-15C/2B-ASIF1.

Location: Intelligence Center and School, Ft. Huachuca, AZ.

Length: 8 weeks (280 hours).

Exhibit Dates: 6/91–Present.

Learning Outcomes: Before 6/91 see AR-1715-0498. Upon completion of the course, the student will be able to work as Special Electronics Mission Aircraft (SEMA) Mohawk system aviator and Military Intelligence officer; develop flight mission profiles and evasive maneuvers; operate aircraft survivability equipment; and understand other SEMA-related issues.

Instruction: Instruction in the use of special airborne electronic equipment used in military intelligence, and flight operational procedures related to the aircraft. Instruction is provided in the classroom and in flight.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/93).

AR-1715-0913

GUARDRAIL SYSTEMS QUALIFICATION

Course Number: 2C-15C/2B-ASIF3.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 7-8 weeks (268 hours).

Exhibit Dates: 6/91–Present.

Learning Outcomes: Before 6/91 see AR-1715-0568. Upon completion of the course, the student will be familiar with all special electronic mission aircraft and trained to operate a specific military reconnaissance airplane (RC-12D) and associated electronic intelligence-gathering systems.

Instruction: Instruction in the use of special airborne electronic equipment used in military

intelligence, and flight operational procedures related to the aircraft. Instruction is provided in the classroom and in flight.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/93).

AR-1715-0914

EMITTER LOCATOR/IDENTIFIER BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 231-98D30.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 10-11 weeks (385 hours).

Exhibit Dates: 1/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to become an effective leader of a Radio Direction Finding section, including the selection of a site, the establishment of the equipment, and the collection, interpretation, and reporting of data; the student will be able to train, assign duties, supervise the section, and provide for logistical requirements and the necessary maintenance program.

Instruction: Instruction includes lecture/conference, small group practical exercises, and demonstrations of equipment installation, use, and maintenance. A full-scale major training exercise synthesizes learning at the end of the course.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in leadership, 2 in material management, 1 in electronic communications, and 1 in keyboarding. See AR-1406-0090 for common core credit (10/93).

AR-1715-0915

TACTICAL COMMUNICATIONS CHIEF BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 101-31G30.

Location: Field Artillery School, Ft. Sill, OK.

Length: 16-17 weeks (592 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Before 10/91 see AR-1715-0492. Upon completion of the course, the student will be able to operate, maintain, and organize an FM radio and land-wire telephone communication system.

Instruction: Lectures and practical exercises in the areas of FM radio communication, telephone network systems, and maintenance/supply procedures.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical fundamentals laboratory and 1 in telephone system installation (2/94); in the lower-division baccalaureate/associate degree category, 2 semester hours in communications systems troubleshooting and maintenance. See AR-1406-0090 for common core credit (2/94).

AR-1715-0916

TRANSPORTABLE AUTOMATIC SWITCHING SYSTEMS
OPERATOR/MAINTAINER RESERVE
COMPONENT

Course Number: 622-36L10-RC.

Location: Signal School, Ft. Gordon, GA.

Length: 17-18 weeks (619 hours).

Exhibit Dates: 10/93–Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate

and maintain an automatic telephone central office electronic switching system; identify series, parallel, and series/parallel resistive circuits and determine values of resistance, voltage, and current in the circuit; explain the basic operation of semiconductors, junction diodes, and transistors and identify their uses in rectifier circuits and voltage regulators; convert between and perform arithmetic in the decimal, binary, octal, and hexadecimal number systems; analyze logic circuits, flip-flop circuits, registers, and counters; solder and desolder wire to various types of electronics terminals.

Instruction: Lectures and practical exercises in the basic electronics and computer operations that support the electronic switch.

Credit Recommendation: In the vocational certificate category, 1 semester hour in soldering techniques and 3 in telephone system troubleshooting and maintenance (2/94); in the lower-division baccalaureate/associate degree category, 3 semester hours in DC and AC circuits, 1 in solid state electronics, 3 in electronic systems troubleshooting and maintenance, and 1 in digital principles (2/94).

AR-1715-0917

SIGNAL SUPPORT SYSTEMS SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: Version 1: 101-31U30.
Version 2: 101-31U30.

Location: Signal School, Ft. Gordon, GA.

Length: Version 1: 11 weeks (417 hours).

Version 2: 15-16 weeks (601 hours).

Exhibit Dates: Version 1: 10/94–Present.
Version 2: 10/92–9/94.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to supervise, install, integrate, troubleshoot, and maintain battlefield manual and automated signal support systems. This version is pending evaluation. Version 2: Upon completion of the course, the student will be able to supervise, install, integrate, troubleshoot, and maintain battlefield manual and automated signal support systems.

Instruction: Version 1: Lectures and laboratory exercises in DC and AC circuits, system troubleshooting techniques, MS-DOS operating system, setup and troubleshooting of local area and wide area networks, and installation and integration of digital communication system. This version is pending evaluation. Version 2: Lectures and laboratory exercises in DC and AC circuits, system troubleshooting techniques, MS-DOS operating system, setup and troubleshooting of local area and wide area networks, and installation and integration of digital communication system.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in DC/AC circuits, 2 in communication system troubleshooting and maintenance, 2 in computer literacy, 3 in local and wide area networks, and 3 in digital system integration. See AR-1406-0090 for common core credit (2/94).

Related Occupations: 31U.

AR-1715-0918

SATELLITE COMMUNICATIONS (SATCOM)
SYSTEMS REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 102-29Y30.

Location: Signal School, Ft. Gordon, GA.

Length: 10 weeks (384 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise, manage, and perform maintenance on a satellite communications system.

Instruction: Lectures and practical exercises on satellite communication system equipment, operation, and maintenance management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in communications systems maintenance management and 1 in computer literacy. See AR-1406-0090 for common core credit (2/94).

AR-1715-0919

MARINE RADAR OBSERVER

Course Number: 8C-F10/062-F3.

Location: Transportation School, Ft. Eustis, VA.

Length: 1-2 weeks (74 hours).

Exhibit Dates: 10/92–Present.

Learning Outcomes: Before 10/92 see AR-1715-0157. Upon completion of the course, the student will be able to operate marine radar and interpret radar plots.

Instruction: Course is conducted through general classroom and applied simulator operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in radar operation and plotting (3/94).

AR-1715-0920

SIGNAL SUPPORT SYSTEMS SUPERVISOR ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 101-31U40.
Version 2: 101-31U40.

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 11-12 weeks (455 hours). *Version 2:* 14-15 weeks (576 hours).

Exhibit Dates: *Version 1:* 10/94–Present.
Version 2: 10/93–9/94.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to supervise, coordinate, and provide technical assistance in management, operation, and installation of communication systems at both the strategic and tactical levels. *Version 2:* Upon completion of the course, the student will be able to supervise, coordinate, and provide technical assistance in management, operation, and installation of communication systems at both the strategic and tactical levels.

Instruction: *Version 1:* This version is pending evaluation. Lectures and practical exercises on the installation, operation, maintenance, and management of a communication system; and training in leadership, communication skills, computer operations, and total quality management. *Version 2:* Lectures and practical exercises on the installation, operation, maintenance, and management of a communication system; and training in leadership, communication skills, computer operations, and total quality management.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in computer literacy and 4 in communication system troubleshooting and

maintenance. See AR-1404-0035 for common core credit (2/94).

AR-1715-0922

SATELLITE/MICROWAVE SYSTEMS CHIEF
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

Course Number: *Version 1:* 101-31S/31P40. *Version 2:* 101-31S/31P40.

Location: Signal School, Ft. Gordon, GA.

Length: *Version 1:* 12 weeks (468 hours). *Version 2:* 13-14 weeks (544 hours).

Exhibit Dates: *Version 1:* 10/95–Present. *Version 2:* 1/94–9/95.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to direct and supervise the use of computer systems in the maintenance, operation, and administration of a satellite or microwave communication station. *Version 2:* Upon completion of the course, the student will be able to direct and supervise the use of computer systems in the maintenance, operation, and administration of a satellite or microwave communication station.

Instruction: *Version 1:* This version is pending evaluation. The course consists of classroom exercises and practical exercises. Topics include computer literacy, signal security, single channel ground and airborne radio systems, mobile subscriber systems, digital communication system, microwave communication system, and satellite communication system. *Version 2:* The course consists of classroom exercises and practical exercises. Topics include computer literacy, signal security, single channel ground and airborne radio systems, mobile subscriber systems, digital communication system, microwave communication system, and satellite communication system.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in computer literacy, 3 in digital and microwave communication system operation and maintenance, and 3 in satellite system applications and operation. See AR-1404-0035 for common core credit (2/94).

AR-1715-0924

COMMUNICATIONS SYSTEMS/CIRCUIT CONTROLLER
BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 101-31N30.

Location: Signal School, Ft. Gordon, GA.

Length: 10-11 weeks (396 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise the operations of digital communication system and tactical technical control facilities.

Instruction: The course consists of classroom lectures, demonstrations, and practical exercises. Topics include digital communication system circuits, digital patch and access system, and tactical technical control facilities.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in operation, maintenance and troubleshooting communications equipment. See AR-1406-0090 for common core credit (2/94).

AR-1715-0925

SATELLITE SYSTEMS/NETWORK COORDINATOR

Course Number: 4C-F19/102-ASI1C.

Location: Signal School, Ft. Gordon, GA.

Length: 19-20 weeks (711 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate, maintain, and manage a network of satellite communication ground stations; and apply electronic countermeasures techniques to ensure reliable communications.

Instruction: Lectures and practical exercises involving the operation of ground station communication equipment and the application of electronic countermeasures using high frequency test instruments including spectrum analyzer.

Credit Recommendation: In the vocational certificate category, 2 semester hours in computer systems maintenance (2/94); in the lower-division baccalaureate/associate degree category, 3 semester hours in satellite communication system operation and management (2/94).

AR-1715-0926

SATELLITE COMMUNICATIONS TERMINAL AN/TSC-85()/TSC-93() REPAIRER

Course Number: 101-ASI7A.

Location: Signal School, Ft. Gordon, GA.

Length: 5-6 weeks (183 hours).

Exhibit Dates: 10/91–4/95.

Learning Outcomes: Upon completion of the course, the student will be able to operate, troubleshoot, and maintain a military satellite communication terminal.

Instruction: Classroom lectures and practical exercises on FM tactical satellite terminal using test sets and spectrum analyzer.

Credit Recommendation: In the vocational certificate category, 3 semester hours in satellite communications systems (2/94).

AR-1715-0928

SIGNAL SUPPORT SYSTEMS SPECIALIST

Course Number: 101-31U10.

Location: Signal School, Ft. Gordon, GA.

Length: 17 weeks (612 hours).

Exhibit Dates: 10/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to install, maintain, and troubleshoot battlefield manual and automated signal support combat net radio system and terminal equipment; perform basic functions on MS-DOS-based computers; provide technical assistance to users of signal equipment; and deploy and operate dedicated retransmission stations.

Instruction: Lectures and laboratory exercises in installation, operation, maintenance, and troubleshooting on manual and automated combat net radio signal support systems and terminal equipment including minor repairs on cables using basic soldering techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance and 1 in data processing and operating systems (2/94).

AR-1715-0929

TRANSPORTABLE MULTICHANNEL SATELLITE
SYSTEMS OPERATOR

Course Number: 202-ASI7A.

Location: Signal School, Ft. Gordon, GA.

Length: 4-5 weeks (152 hours).

Exhibit Dates: 6/92-4/95

Learning Outcomes: Upon completion of the course, the student will be able to install, operate, and maintain a satellite communication ground terminal.

Instruction: Lectures and practical exercises on the installation, operation, and maintenance of a military-specific satellite communication ground terminal.

Credit Recommendation: In the lower division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance (2/94).

AR-1715-0930

OFFICER REBRANCHING SIGNAL

Course Number: 4C-F37

Location: Signal School, Ft. Gordon, GA.

Length: 2-3 weeks (79 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to demonstrate basic tactical communications management principles including the design of a tactical communication system. The student will also be familiar with the various components of the system.

Instruction: The course uses classroom lectures and laboratory exercises. Topics include the history and background of the Signal Corps, electronic communications, tactical communications, and communications equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic communications (2/94).

AR-1715-0932

1. MICROWAVE SYSTEMS OPERATOR-MAINTAINER BASIC NONCOMMISSIONED OFFICER (NCO)
2. MICROWAVE SYSTEMS OPERATOR MAINTENANCE BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: Version 1: 101-31P30. Version 2: 101-31P30.

Location: Signal School, Ft. Gordon, GA.

Length: Version 1: 13-14 weeks (517 hours). Version 2: 16 weeks (608 hours).

Exhibit Dates: Version 1: 10/94-Present. Version 2: 2/94-9/94.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to implement telecommunications service orders and supervise the operation and maintenance of microwave communications and control systems. This version is pending evaluation. Version 2: Upon completion of the course, the student will be able to implement telecommunications service orders and supervise the operation and maintenance of microwave communications and control systems.

Instruction: Version 1: Lectures and practical exercises in signal administration, system procedures, and digital microwave systems operation. This version is pending evaluation. Version 2: Lectures and practical exercises in signal administration, system procedures, and digital microwave systems operation.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the lower-division baccalaureate/associate degree category, 1 semester hour in computer literacy, 3 in microwave communication systems management, and 3 in electronic system troubleshooting and maintenance. See AR-1406-0090 for common core credit (2/94).

Related Occupations: 31P

AR-1715-0933

COMMUNICATIONS SYSTEM CONTROL ELEMENT OPERATIONS

Course Number: 4C-143-260-111

Location: Signal School, Ft. Gordon, GA

Length: 5-6 weeks (208 hours)

Exhibit Dates: 1/93-Present

Learning Outcomes: Upon completion of the course, the student will be able to install, operate, and maintain a communication system controller based on a DEC microvax workstation.

Instruction: Lecture and practical exercises on the installation, operation, and maintenance of military-specific communication system control software running on a commercial workstation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in computer systems troubleshooting and maintenance and 1 in computer literacy (2/94).

AR-1715-0934

TELEVISION EQUIPMENT SPECIALIST

Course Number: G3ABR30435.

Location: Technical Training Center, Lowry AFB, CO.

Length: 12-13 weeks (484 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to install, perform preventive maintenance and troubleshoot television systems. The student will demonstrate knowledge of the theory of television and video systems, ability to correctly use television test instruments, perform routine maintenance and install and troubleshoot video systems.

Instruction: Training includes the theory of television, television test instruments, video camera, distribution systems, color TV principles, studio audio and video equipment, television receiver and transmitter principles, maintenance, video tape recording alignment and troubleshooting procedures. Methods include readings, lectures, exercises, and laboratory experience with TV equipment. Evaluation is by test and performance checks. Seventy percent accuracy is required.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic test instruments and 3 in television and video theory (2/87).

AR-1715-0935

MULTIPLE LAUNCH ROCKET SYSTEM (MLRS) CADRE

Course Number: 2F-13B/042-13M20/30/40-T.

Location: Field Artillery School, Ft. Sill, OK.

Length: 4-6 weeks (119-208 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to direct and manage a multiple launch rocket system (MLRS) ammunition and firing section. This includes positioning, employing, and supervising the fire direction system.

Instruction: Lectures and practical exercises in communications targeting, weapons, navigation, map reading and system maintenance.

Credit Recommendation: In the vocational certificate category, 1 semester hour in radio system operation (9/94); in the lower-division baccalaureate/associate degree category, 1 semester hour in map reading (9/94).

Related Occupations: 13B-13M

AR-1715-0936

FIELD ARTILLERY TACTICAL FIRE DIRECTION SYSTEM REPAIRER

Course Number: 113-39Y10

Location: Field Artillery School, Ft. Sill, OK

Length: 21 weeks (787 hours).

Exhibit Dates: 1/90-10/93

Learning Outcomes: Upon completion of the course, the student will possess the skills and knowledge required to maintain, repair, and troubleshoot a computer-driven fire control system down to the component level.

Instruction: Lectures and laboratory exercises covering the major subsystems (computer group and central processor, magnetic and core memory units, line printer, digital data terminal, digital plotter, power systems, and communication equipment) and their component parts including circuit boards, wiring diagrams, and computer-driven diagnostics/fault isolation. Students initiate diagnostics, interpret diagnostic, interpret diagnostic codings, and use schematics and other technical documentation in conjunction with previously acquired knowledge of electronic theory and practice, to identify, isolate and repair faults, as well as perform standard operation and preventive maintenance actions.

Credit Recommendation: In the vocational certificate category, 2 semester hours in soldering (9/94); in the lower-division baccalaureate/associate degree category, 2 semester hours in computer operations, 3 in computer maintenance and troubleshooting, 4 in AC/DC circuits, 3 in solid state electronics, 3 in digital principles, and 3 in computer fundamentals (9/94).

Related Occupations: 39Y.

AR-1715-0937

AVENGER SYSTEM CREWMEMBER

Course Number: 043-ASI Y1 (16S); 043-14S10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 5-10 weeks (180-385 hours).

Exhibit Dates: 6/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate and maintain the Avenger system.

Instruction: Lecture and practical exercises on the missile system, machine gun, emplacement, and field applications.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/95).

Related Occupations: 16S.

AR-1715-0938

1. AVENGER CREWMEMBER (TRANSITION)

2. AVENGER SYSTEM CREWMEMBER (TRANSITION)

Course Number: *Version 1:* 043-14S2/3/40-T. *Version 2:* 043-ASI Y1 (16S20/30/40).

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: *Version 1:* 3 weeks (112 hours). *Version 2:* 3 weeks (112 hours).

Exhibit Dates: *Version 1:* 2/92–Present. *Version 2:* 7/90–1/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will know and be able to perform the tasks required to operate and maintain the Avenger air defense system. *Version 2:* Upon completion of the course, the student will know and be able to perform the tasks required to operate and maintain the Avenger air defense system.

Instruction: *Version 1:* Lecture and practical exercises on the missile system, machine gun, emplacement, and field applications. *Version 2:* Lecture and practical exercises on the missile system, machine gun, emplacement, and field applications.

Credit Recommendation: *Version 1:* Credit is not recommended because of the military-specific nature of the course (6/95). *Version 2:* Credit is not recommended because of the military-specific nature of the course (6/95).

Related Occupations: 14S; 16S.

AR-1715-0939

HAWK MISSILE SYSTEM CREWMEMBER

Course Number: *Version 1:* 043-14D10. *Version 2:* 043-14D10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: *Version 1:* 10 weeks (372-374 hours). *Version 2:* 8-9 weeks (320 hours).

Exhibit Dates: *Version 1:* 8/92–Present. *Version 2:* 1/91–7/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will learn the functions of the Hawk missile system, perform maintenance checks and services, emplacement, system handling procedures, orientation, alignment and integration checks, system operations, and crew training. *Version 2:* Upon completion of the course, the student will learn the functions of the Hawk missile system, know the daily check procedures, be able to energize/de-energize the system; prepare the system for travel and emplace the system; train personnel on system orientations, alignment, integration and systems checks, system operations, and maintenance.

Instruction: *Version 1:* Conferences, demonstrations, and practical exercises in basic system level operation, emplacement, daily checks, and crew drill. *Version 2:* Conferences, demonstrations, and practical exercises in basic system level operation, emplacement, daily checks, and crew drill.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems and 1 in electronic system maintenance (6/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems (6/95).

Related Occupations: 14D.

AR-1715-0940

HAWK INFORMATION COORDINATION CENTRAL
MECHANIC TRANSITION

Course Number: 104-24G1/2/30 (PIP 3)-T.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 13 weeks (464 hours).

Exhibit Dates: 6/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform operational checks, adjustments, fault isolation and repair of the Hawk missile system with PIP III changes.

Instruction: Conferences, demonstrations, and practical exercises on system operation, adjustments, maintenance, fault isolation and repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems and 3 in electronics system maintenance (6/95).

Related Occupations: 24G.

AR-1715-0941

PATRIOT MISSILE CREWMEMBER

Course Number: 043-16T10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 9 weeks (325 hours).

Exhibit Dates: 8/93–Present.

Learning Outcomes: Before 8/93 see AR-1715-0579. Upon completion of the course, the student will have learned how to operate the missile truck delivery system, the launching station, and, to a limited extent, the radar system. Additionally preventive maintenance (PMS) is taught for all the system components.

Instruction: Instruction is provided using lecture and laboratory experience. Detailed instruction on the truck, PMS for the truck, and the obtaining of proper driver license is a part of the instruction. In addition to the above survey functions, missile reload procedures, preventive maintenance, launcher tests, logistics functions, and communications procedures are contained in the course.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electro-mechanical maintenance procedures (6/95).

Related Occupations: 16T.

AR-1715-0942

LINE OF SIGHT-FORWARD-HEAVY CREWMEMBER

Course Number: 043-14R10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 9-10 weeks (352 hours).

Exhibit Dates: 3/93–Present.

Learning Outcomes: Upon completion of the course, this student will be able to teach crew members how to operate the Bradley fighting vehicle (BSFV), to fire on-board weapons systems, and to perform preventive maintenance on both the BSFV and weapons.

Instruction: This course is taught using both lectures and associated labs. It was designed to teach operation and maintenance of the Bradley system. It includes instruction in visual aircraft recognition, armored vehicle hull and turret systems operation, gun operation, driving skills, and associated preventive maintenance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in diesel equipment maintenance (6/95).

Related Occupations: 14R.

AR-1715-0943

HAWK MISSILE SYSTEM MECHANIC (TRANSITION)

Course Number: 121-23R10-B-T.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 17-18 weeks (638 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will know the functional operations of the Hawk missile system and radar.

Instruction: Lecture and practical demonstrations on operations, adjustments, fault isolation, and maintenance management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems (6/95).

Related Occupations: 23R.

AR-1715-0944

HAWK MISSILE SYSTEM MECHANIC (TRANSITION)

Course Number: 121-23R10-A-T.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 14 weeks (511 hours).

Exhibit Dates: 10/90–5/91.

Learning Outcomes: Upon completion of the course, the student will know the functional operations of the Hawk missile system and radar.

Instruction: Lecture and practical demonstrations on operations, adjustments, fault isolation, and maintenance management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems (6/95).

Related Occupations: 23R.

AR-1715-0945

HAWK FIRING SECTION MECHANIC TRANSITION

Course Number: 121-24C1/2/30 (PIP 3)-T.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 10-11 weeks (386 hours).

Exhibit Dates: 6/91–Present.

Learning Outcomes: Upon completion of the course, the student will know the functional operations of the Hawk missile system and radar.

Instruction: Lecture and practical demonstrations on operations, adjustments, fault isolation, and maintenance management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems (6/95).

AR-1715-0946

HAWK MISSILE SYSTEM MECHANIC

Course Number: *Version 1:* 121-23R10. *Version 2:* 121-23R10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: *Version 1:* 28-31 weeks (996-1095 hours). *Version 2:* 34-35 weeks (1256 hours).

Exhibit Dates: *Version 1:* 7/91–Present. *Version 2:* 3/90–6/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform unit level maintenance, fault isolation, and corrective maintenance on the major end items of the Hawk missile system. *Version 2:* Upon completion of the course, the student will be able to perform organizational maintenance, fault isolation, and repair of the Hawk missile system.

Instruction: *Version 1:* Conferences, demonstrations, and practical exercises in missile system operation, maintenance, fault isolation, and repair on major end items of the Hawk missile system. *Version 2:* Conferences, demonstrations, and practical exercises in missile system operation, maintenance, fault isolation, and repair on major end items of the Hawk missile system.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems, 3 in electronic systems maintenance, 1 in hydraulics systems, 2 in DC circuits, 1 in AC circuits, and 2 in electronic circuits analysis (6/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems, 3 in electronic systems maintenance, 1 in hydraulic systems, 2 in DC circuits, 1 in AC circuits, and 2 in electronic circuits analysis (6/95).

Related Occupations: 23R.

AR-1715-0947

HAWK MISSILE SYSTEM TECHNICIAN WARRANT
OFFICER TECHNICAL/TACTICAL
CERTIFICATION

Course Number: *Version 1:* 4F-140D. *Version 2:* 4F-140D (PIP 3).

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: *Version 1:* 26-27 weeks (945 hours). *Version 2:* 26 weeks (935 hours).

Exhibit Dates: *Version 1:* 7/91–Present. *Version 2:* 1/90–6/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will know the operation and maintenance of the Hawk air defense missile system and support equipment. *Version 2:* Upon completion of the course, the student will know the operation and maintenance of the Hawk air defense missile system and support equipment.

Instruction: *Version 1:* Lecture and practical exercises in hydraulics, high voltage, radar, computer controls, and power generation equipment. *Version 2:* Lecture and practical exercises in hydraulics, high voltage, radar, computer controls, and power generation equipment.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems, 3 in electronic systems troubleshooting and maintenance, and 1 in hydraulics (6/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems, 3 in electronic systems troubleshooting and maintenance, and 1 in hydraulics (6/95).

AR-1715-0948

SHORAD SYSTEMS TECHNICIAN WARRANT OFFICER
TECHNICAL/TACTICAL CERTIFICATION,
PHASE 2

Course Number: 4F-140B.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 10-11 weeks (370-371 hours).

Exhibit Dates: 6/94–Present.

Learning Outcomes: Upon completion of the course, the student will know the operation and maintenance of air defense weapons and support equipment.

Instruction: Lecture and practical exercises on the theory, maintenance, operation, repair,

and support equipment of the air defense systems. This includes Chaparral, Bradley Stinger, Avenger, and early warning systems. The Vulcan system was included until 6/94.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/95).

AR-1715-0949

HAWK MISSILE AIR DEFENSE ARTILLERY OFFICER
RECLASSIFICATION RESERVE

Course Number: 2F-14D (PIP 2)-RC.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: Phase 2, 2 weeks (91 hours); Phase 4, 2 weeks (80 hours).

Exhibit Dates: 1/92–Present.

Learning Outcomes: This course is organized into 4 separate segments (two of which are correspondence), and is designed to prepare a reserve officer for an initial assignment within a Hawk air defense battery or battalion. The four segments are non-resident instruction provided as read-ahead materials; resident hands-on Hawk system; command and control read-ahead materials; and resident hands-on command and control.

Instruction: Instruction in phases 2 and 4 at Ft. Bliss is a combination of lecture and laboratory experiences. Material in the courses (2 and 4) are military specific.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/95).

AR-1715-0950

HAWK MISSILE SYSTEM WITH COMPUTER UPGRADE
(PHASE 2 A) (MAINTAINER)

Course Number: 4F-F29/121-F35.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 4-5 weeks (163 hours).

Exhibit Dates: 1/91–1/95.

Learning Outcomes: Upon completion of the course, the student will maintain the Hawk missile system with computer upgrade. The student will be able to perform built in test (BIT), maintenance, and block level systems checks utilizing integrated system checks (ISC) and equipment test programs (ETP's).

Instruction: Conferences, demonstrations, and practical exercises in basic systems operations, maintenance, and fault isolation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in radar systems, 1 in electronic systems, and 1 in electronic system troubleshooting (6/95).

AR-1715-0951

FIELD ARTILLERY AIR DEFENSE OFFICER
RECLASSIFICATION - RESERVE

Course Number: 2E-14B-RC.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 2-3 weeks (99 hours).

Exhibit Dates: 11/93–Present.

Learning Outcomes: Upon completion of the course, the student will know the characteristics, limitations, and tactics of air defense artillery systems.

Instruction: Lecture and practical demonstrations on air defense artillery including the

Chaparral, Avenger, Stinger, and Bradley Stinger systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/95).

AR-1715-0952

HAWK MISSILE SYSTEM WITH COMPUTER UPGRADE
(PHASE 2 A) (OPERATOR)

Course Number: 2F-F17/043-F10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 4-5 weeks (163 hours).

Exhibit Dates: 1/91–1/95.

Learning Outcomes: Upon completion of the course, the student will operate the Hawk missile system with computer upgrade. The student will be able to march order, emplace, energize/deenergize, orient, align, select sites, test systems, and operate the system. Through classroom instruction, practical demonstrations and examination the student will be able to perform built in test (BIT), line of sight (LOS) orientation, launch alignment checks, and system interface test.

Instruction: Conferences, demonstrations and practical exercises in basic missile system operation, maintenance, and fault isolation to the organizational level.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in radar systems and 2 in electronic equipment maintenance (6/95).

AR-1715-0953

EARLY WARNING SYSTEM OPERATOR

Course Number: *Version 1:* 221-14J10. *Version 2:* 221-14J10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: *Version 1:* 15 weeks (540 hours). *Version 2:* 10 weeks (360 hours).

Exhibit Dates: *Version 1:* 4/95–Present. *Version 2:* 10/92–3/95.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to operate and perform limited maintenance on all the equipment of the early warning system, to include the radar, the radio system, and the truck delivery system. *Version 2:* Upon completion of the course, the student will be able to operate and do limited maintenance on the early warning system. Concepts relevant to the system operations (such as NBC, communications concepts, mapping, etc.) are included in the course.

Instruction: *Version 1:* Instruction is provided, using lectures and practical exercises, in all aspects of the EWSO system. Mapping and global positioning, operations in an NBC environment, various communications concepts, and PMS/CM operations are included in this course. In general, however, all of the instruction is geared toward operational concepts, and instruction in maintenance is to the block diagram level with very limited component and test equipment utilizations. *Version 2:* Instruction is provided, using lectures and practical exercises, in the operation, preventive maintenance, and limited corrective maintenance to the EWSO radar, communications, and truck delivery system. In the area of electronics/electrical, instruction is to the block level with power flow included for the on-board generator.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to technology (6/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to technology (6/95).

Related Occupations: 14J.

AR-1715-0954

HAWK MISSILE SYSTEM CREWMEMBER
(TRANSITION)

Course Number: 043-14D10-T.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 5-6 weeks (204 hours).

Exhibit Dates: 10/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify the electromagnetic threat, prepare for travel, and emplace the Hawk launcher, loader-transporter, launch section control box; perform before, during, and after operation checks; perform as a crew chief/member (MOS 16E) transition. The 16D transition student will be able to perform operational checks, energize/deenergize and prepare for travel the CWAR, HIPAR with VTG, PCP, IFF and PAR. The 16D/16E overall Hawk PIP III operator will perform initialization, orientation, and alignment of the Hawk system to include integrated systems checks, launcher crew chief/crew member duties, and arming/disarming procedures.

Instruction: Conferences, demonstrations, and practical exercises in basic system level operation, performance checks, and system deployment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in radar systems, 1 in electronic equipment maintenance for MOS 16E transition, 3 semester hours in radar systems and for MOS 16D transition. 1 semester hour in radar systems, and 2 in electronic equipment maintenance (6/95).

Related Occupations: 14D.

AR-1715-0955

1. HAWK SYSTEM TECHNICIAN/MASTER
MECHANIC PIP 3 TRANSITION
2. HAWK MISSILE SYSTEM TECHNICIAN/MASTER
MECHANIC (PIP 3) TRANSITION

Course Number: *Version 1:* 4F-140D/632-24R40/50-T. *Version 2:* 4F-140D/121-24R40/50-T.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: *Version 1:* 5-6 weeks (362 hours). *Version 2:* 8-9 weeks (307 hours).

Exhibit Dates: *Version 1:* 10/92-1/95. *Version 2:* 10/90-9/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform operational checks, maintenance services, and fault isolation procedures on the high-powered illumination radar (HIPAR), continuous wave acquisition radar (CWAR), platoon command post (PCP), and present instructions on the operational checks, fault isolation, and maintenance services on Hawk missile system. *Version 2:* Upon completion of the course, the student will be able to perform operational checks, maintenance services, and fault isolation procedures on the high-powered illumination radar (HIPAR), continuous wave

acquisition radar (CWAR), platoon command post (PCP), and present instructions on the operational checks, fault isolation, and maintenance services on Hawk missile system.

Instruction: *Version 1:* Conferences, demonstrations, and practical exercises in basic system level operations, performance checks, fault isolation of the HIPAR and CWAR radar systems, and platoon command post (PCP). *Version 2:* Conferences, demonstrations, and practical exercises in basic system level operations, performance checks, fault isolation of the HIPAR and CWAR radar systems, and platoon command post (PCP).

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems and 2 in electronic systems maintenance (6/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems and 3 in electronic systems maintenance (6/95).

Related Occupations: 24R.

AR-1715-0956

CHAPARRAL SYSTEM MECHANIC

Course Number: 632-24N10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 13 weeks (472 hours).

Exhibit Dates: 9/93-Present.

Learning Outcomes: Before 9/93 see AR-1715-0120. Upon completion of the course, the student will be able to operate, perform preventive maintenance, and troubleshoot the Chaparral air defense system and all support equipment.

Instruction: Conferences, demonstrations, and practical exercises on the basic operations, maintenance, and troubleshooting of the Chaparral air defense system and all support equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in radar systems, 2 in electronic system maintenance, and 1 in DC circuits (6/95).

Related Occupations: 24N.

AR-1715-0957

HAWK MISSILE SYSTEM TECHNICIAN WARRANT
OFFICER TECHNICAL/TACTICAL
CERTIFICATION (PIP 2)

Course Number: 4F-140D (PIP 2).

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 25-26 weeks.

Exhibit Dates: 1/90-1/95.

Learning Outcomes: Upon completion of the course, the student will be able to perform overall maintenance and operation on the radar units associated with the Hawk missile system. Additional capabilities will exist in the loader, transporter, and the Hawk launcher.

Instruction: Instruction is provided using both lecture and laboratory experiences. The primary focus of the course is on the radar systems (high power, CW, and pulse acquisition radars). Included also is instruction on IFF system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems, 2 in power distribution, 3 in electronic troubleshoot-

ing, and 2 in microprocessor troubleshooting (6/95).

AR-1715-0958

HAWK MISSILE SYSTEM WITH COMPUTER UPGRADE
(PHASE 3 A) OPERATOR

Course Number: 2F-F18/043-F11.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 4-5 weeks (163 hours).

Exhibit Dates: 1/91-1/95.

Learning Outcomes: Upon completion of the course, the student will operate the Hawk missile system with computer upgrade. The student will be able to march order, emplace, energize/deenergize, orient, align, select sites, text systems, and operate the system through classroom instruction, practical demonstrations, and examinations. The student will be able to perform built in test (BIT), line of sight (LOS) orientation, launcher alignment checks, and system interface test.

Instruction: Conferences, demonstrations, and practical exercises in basic missile system operation, maintenance, and fault isolation to the organizational level.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in radar systems and 2 in electronic equipment maintenance (6/95).

AR-1715-0959

HAWK OFFICER

Course Number: 2F-14D (PIP 3).

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 13-14 weeks (497 hours).

Exhibit Dates: 10/91-Present.

Learning Outcomes: Before 10/91 see AR-1715-0382. Upon completion of the course, the officer will know the characteristics, capabilities, and functions of the Hawk battery and the command and control system.

Instruction: Lecture and demonstrations on safety, technical procedures, equipment requirements, site selection, field procedures, and simulated raids.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (5/95).

AR-1715-0960

HAWK MISSILE SYSTEM WITH COMPUTER UPGRADE
(PHASE 3 A) (MAINTAINER)

Course Number: 4F-F30/121-F36.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 4-5 weeks (163 hours).

Exhibit Dates: 1/91-1/95.

Learning Outcomes: Upon completion of the course, the student will maintain the Hawk missile system with computer upgrade. The student will be able to perform built in test (BIT), and maintenance, and block level system checks utilizing integrated systems checks (ISC) and equipment test programs (ETPs).

Instruction: Conferences, demonstrations, and practical exercises in basic systems operations, maintenance, and fault isolation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in radar systems, 1 in electronic systems, and 1 in electronic systems troubleshooting (5/95).

AR-1715-0961

HAWK PULSE ACQUISITION RADAR MECHANIC

Course Number: 4F-F31/121-F37.**Location:** Air Defense Artillery School, Ft. Bliss, TX.**Length:** 4-5 weeks (158 hours).**Exhibit Dates:** 2/92–Present.**Learning Outcomes:** Upon completion of the course, the student will be able to perform unit maintenance on the pulse acquisition radar.**Instruction:** Lecture and practical exercises on radar operation, functions, and fault isolation procedures.**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 1 semester hour in radar systems (5/95).**AR-1715-0962**SHORAD SYSTEMS TECHNICIAN WARRANT OFFICER
TECHNICAL/TACTICAL CERTIFICATION**Course Number:** 4F-140B.**Location:** Air Defense Artillery School, Ft. Bliss, TX.**Length:** 16 weeks (584 hours).**Exhibit Dates:** 1/90–9/95.**Learning Outcomes:** Upon completion of the course, the student will know the logistical and tactical abilities of the Vulcan and Chapparral systems in a field environment.**Instruction:** Lecture and practical demonstrations on the theory, operation, and maintenance of the Vulcan and Chapparral missile systems. This includes radar, electrical circuits, power generation, positioning, fire control, range computers, and ordnance.**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in AC/DC circuits (6/95).**AR-1715-0963**AIR DEFENSE ARTILLERY OFFICER ADVANCED
RESERVE**Course Number:** 2-44-C23.**Location:** Air Defense Artillery School, Ft. Bliss, TX.**Length:** Phase 1, (86-106 hours); Phase 2, (100-121 hours).**Exhibit Dates:** 7/93–Present.**Learning Outcomes:** Upon completion of the course, the student will be able to load and direct an air defense battery.**Instruction:** Lectures and practical exercises involving the use of defensive missile systems in battle.**Credit Recommendation:** Credit is not recommended because of the military-specific nature of the course (8/95).**AR-1715-0964**AIR DEFENSE ARTILLERY WARRANT OFFICER
ADVANCED**Course Number:** 2-44-C32.**Location:** Air Defense Artillery School, Ft. Bliss, TX.**Length:** 6-7 weeks (238-252 hours).**Exhibit Dates:** 1/90–10/92.**Learning Outcomes:** Upon completion of the course, the student will be able to use effective written and oral communication techniques; employ leadership principles; describe missile systems; integrate personal computer components; use DOS; use word processing

software, and use a personal computer graphics program.

Instruction: Lectures and practical exercises in topics including writing and editing techniques, oral presentation skills, leadership skills, specific missile systems, personal computer hardware, and personal computer software.**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 1 semester hour in written and oral communications, 1 in personal computer hardware, 1 in DOS, and 1 in word processing (8/95).**AR-1715-0966**AVIONIC MAINTENANCE SUPERVISOR ADVANCED
NONCOMMISSIONED OFFICER (NCO)
RESERVE**Course Number:** RC-011-68P40.**Location:** Reserve Centers, US; Aviation Center, Ft. Rucker, AL.**Length:** 56 hours.**Exhibit Dates:** 8/91–Present.**Learning Outcomes:** Upon completion of the course, the student will have the knowledge and skills required to function effectively at skill level 4 as intermediate avionics equipment maintenance supervisor and/or platoon sergeant.**Instruction:** Classroom lectures in verbal and written communication skills, training management, common military skills, logistic and maintenance management, and supervision of avionics maintenance facilities.**Credit Recommendation:** Credit is recommended for the common core only. See AR-2201-0295 (1/96).**AR-1715-0967**AVIONIC COMMUNICATIONS EQUIPMENT REPAIRER
BASIC NONCOMMISSIONED OFFICER (NCO)
RESERVE**Course Number:** RC-011-68L30.**Location:** Aviation Center, Ft. Rucker, AL; Reserve Centers, US.**Length:** 61 hours.**Exhibit Dates:** 7/92–Present.**Learning Outcomes:** Upon completion of the course, the student will be able to function effectively as a first line supervisor of avionics communications equipment repairers in an avionics maintenance facility.**Instruction:** Topics include providing technical guidance on various avionics equipment that would enable the solder to perform maintenance in accordance with applicable technical maintenance.**Credit Recommendation:** Credit is recommended for the common core only. See AR-2201-0337 (1/96).**AR-1716-0009**

LAUNDRY AND BATH SPECIALIST, RESERVE

Course Number: 840-57E10-RC.**Location:** Quartermaster Center and School, Ft. Lee, VA.**Length:** 3-4 weeks (133 hours).**Exhibit Dates:** 1/90–12/91.**Learning Outcomes:** Upon completion of the course, the student will be able to operate and maintain laundry, bath, and fumigation equipment.**Instruction:** Lectures and practical exercises in the operation and maintenance of field

bath, heater, and delousing equipment and clothing; exchange procedures, operation and maintenance of field laundry equipment and laundry processing procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in laundry equipment maintenance (10/88).**AR-1716-0010**

1. LAUNDRY AND SHOWER/FABRIC REPAIR SPECIALIST
2. LAUNDRY AND BATH/FABRIC REPAIR SPECIALIST
BASIC NONCOMMISSIONED OFFICER (NCO)
3. LAUNDRY AND BATH/FABRIC REPAIR SPECIALIST
BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: Version 1: 840-57E/43M30. Version 2: 840-57E/43M30. Version 3: 840-57E/43M30.**Location:** Quartermaster Center and School, Ft. Lee, VA.**Length:** Version 1: 5-6 weeks (198 hours). Version 2: 8-9 weeks (301 hours). Version 3: 6-7 weeks (241 hours).**Exhibit Dates:** Version 1: 10/95–Present. Version 2: 6/92–9/95. Version 3: 1/90–5/92.**Learning Outcomes:** Version 1: This version is pending evaluation. Upon completion of the course, the student will be able to supervise small and medium sized textile, laundry, and repair facilities. Version 2: Upon completion of the course, the student will be able to supervise small and medium sized textile, laundry, and repair facilities. Version 3: Upon completion of the course, the student will be able to supervise small and medium sized textile and repair facilities.**Instruction:** Version 1: This version is pending evaluation. Conferences, practical exercises, visual aids, and demonstrations are used to cover fabric repair, shop safety, preventive maintenance, workflow, supervision and quality control, shop operations, and records maintenance of a fabric repair/laundry and bath operation. Version 2: Conferences, practical exercises, visual aids, and demonstrations are used to cover fabric repair, shop safety, preventive maintenance, workflow, supervision and quality control, shop operations, and records maintenance of a fabric repair/laundry and bath operation. Version 3: Conferences, practical exercises, visual aids, and demonstrations are used to cover fabric repair, shop safety, preventive maintenance, workflow, supervision and quality control, shop operations, and records maintenance of a fabric repair/laundry and bath operation.**Credit Recommendation:** Version 1: Pending evaluation. Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in textile care and maintenance. See AR-1406-0090 for common core credit (2/93). Version 3: In the lower-division baccalaureate/associate degree category, 3 semester hours in supervisory management. See AR-1406-0090 for common core credit (10/88).**Related Occupations:** 43M; 43M; 57E; 57E.**AR-1716-0011**

1. FABRIC REPAIR SPECIALIST ADVANCED
INDIVIDUAL TRAINING
2. FABRIC REPAIR SPECIALIST

Course Number: Version 1: 760-43M10. Version 2: 760-43M10.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 6 weeks (228-229 hours). *Version 2:* 8-9 weeks (303 hours).

Exhibit Dates: *Version 1:* 10/95–Present. *Version 2:* 1/90–9/95.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will have the skill to alter and repair organizational clothing, textiles, canvas, and webbed items. *Version 2:* Upon completion of the course, the student will have the skill to alter and repair organizational clothing, textiles, canvas, and webbed items.

Instruction: *Version 1:* This version is pending evaluation. Demonstrations and practical exercise are used to develop the students ability to alter and repair organizational clothing, textiles, canvas and webbed items. Extensive use of appropriate sewing machines and other equipment along with procedures to perform preventive maintenance, troubleshooting and adjustment of the equipment. *Version 2:* Demonstrations and practical exercise are used to develop the students ability to alter and repair organizational clothing, textiles, canvas and webbed items. Extensive use of appropriate sewing machines and other equipment along with procedures to perform preventive maintenance, troubleshooting and adjustment of the equipment.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 7 semester hours in textile repair and machine operations (2/93).

Related Occupations: 43M.

AR-1716-0012

1. LAUNDRY AND SHOWER/FABRIC REPAIR
SPECIALIST

2. LAUNDRY AND BATH/FABRIC REPAIR
SPECIALISTS ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 840-57E/43M40. *Version 2:* 840-57E/43M40.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 7 weeks (257 hours). *Version 2:* 9-10 weeks (344 hours).

Exhibit Dates: *Version 1:* 10/95–Present. *Version 2:* 6/92–9/95.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to supervise the identification, care, and maintenance of textiles including the management of a commercial laundry and fabric repair shop. Topics also include laundry and repair equipment, laundry exchange procedures, and the preparation of cost and administrative reports. *Version 2:* Upon completion of the course, the student will be able to supervise the identification, care, and maintenance of textiles including the management of a commercial laundry and fabric repair shop. Topics also include laundry and repair equipment, laundry exchange procedures, and the preparation of cost and administrative reports.

Instruction: *Version 1:* This version is pending evaluation. Conference and small group instruction coupled with practical exercises which apply the principles of fabric care to the operation of a commercial laundry and fabric repair shop. *Version 2:* Conference and small group instruction coupled with practical exercises which apply the principles of fabric

care to the operation of a commercial laundry and fabric repair shop.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 4 semester hours in textile care and maintenance. See AR-1404-0035 for common core credit (2/93).

AR-1717-0054

SIGNAL SECURITY (SIGSEC) SPECIALIST BASIC
TECHNICAL

Course Number: 231-05G30.

Location: Intelligence School, Ft. Devens, MA.

Length: 7-8 weeks (266-335 hours).

Exhibit Dates: 1/90–3/94.

Objectives: To prepare personnel who have been trained as signal security specialists for supervision and management positions.

Instruction: Instructions and practical exercises in map reading, maintenance management procedures, supervision of maintenance personnel, communications/telecommunications operations, communication security, and military science.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management procedures and supervision of personnel (2/83).

Related Occupations: 05G.

AR-1717-0067

LANCE MISSILE MECHANIC

Course Number: 043-ASIZ3; 043-F4.

Location: Field Artillery School, Ft. Sill, OK.

Length: 2 weeks (72 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train selected personnel to perform as Lance missile mechanics; must have completed Lance Missile Crewmember course 043-15D10.

Instruction: Instruction in assembly, maintenance, and transportation of the Lance missile.

Credit Recommendation: In the vocational certificate category, 1 semester hour in the use and care of hand tools (10/83).

AR-1717-0075

AVIATION MAINTENANCE OFFICER AND REPAIR
TECHNICIAN PHASE II CH-47D

(Aviation Maintenance Officer Phase II CH-47D)

Course Number: 4D-15T/153A/154CG1G; 4D-71A/160A/100CGH (CH-47D).

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 2-4 weeks (75-135 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide the aviation commissioned officer and warrant officer with the skills and knowledge required to accomplish test flights and maintenance of the CH-47D aircraft.

Instruction: Instruction in maintenance concepts, management of aircraft maintenance resources, inspection and diagnostic procedures, subsystems and support equipment, and operational checks to determine the airworthiness of the CH-47D aircraft.

Credit Recommendation: In the lower-division baccalaureate/associate degree cate-

gory, 1 semester hour in aviation maintenance management and 1 in advanced helicopter flight techniques (3/88).

AR-1717-0077

WARRANT OFFICER TECHNICAL CERTIFICATION
(Armament Repair Technician)

Course Number: 4E-421A.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 18 weeks (658 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to assume duties and responsibilities as an upgrade technician in armament repair.

Instruction: Topics include management practices and procedures, basic electricity and electronics, computers, inspection and repair of artillery, small arms, and fire control equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management, 2 in communications skills, 2 in basic electricity, 2 in basic electronics, and 1 in basic computer (3/87).

Related Occupations: 421A.

AR-1717-0078

NON-MORSE INTERCEPTOR/ANALYST BASIC
NONCOMMISSIONED OFFICER (NCO)
(Electronic Warfare (EW) Signals Intelligence (SIGINT) Non-Morse Interceptor Basic Noncommissioned Officer (NCO))

Course Number: *Version 1:* 231-98K30; 231-05K30. *Version 2:* 231-98K30; 231-05K30.

Location: Intelligence School, Ft. Devens, MA.

Length: *Version 1:* 9 weeks (328-329 hours). *Version 2:* 11-12 weeks (380-381 hours).

Exhibit Dates: *Version 1:* 1/91–3/94. *Version 2:* 1/90–12/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to analyze received electronic signals in a quality controlled manner and generate computerized reports. Modulation techniques and their analysis are covered. *Version 2:* Upon completion of the course, the student will be able to analyze received electronic signals in a quality controller manner and generate computerized reports. Modulation techniques and their analysis are covered.

Instruction: *Version 1:* Lectures, presentations, and practical exercises in analysis of modulation techniques and report generation. *Version 2:* Lectures, presentations, and practical exercises in analysis of modulation techniques and report generation.

Credit Recommendation: *Version 1:* In the vocational certificate category, 3 semester hours in communications theory (7/91); in the lower-division baccalaureate/associate degree category, 2 semester hours in personnel management. See AR-1406-0090 for common core credit (7/91). *Version 2:* In the vocational certificate category, 3 semester hours in communications theory (7/91); in the lower-division baccalaureate/associate degree category, 2 semester hours in personnel management (7/91).

Related Occupations: 05K, 98K.

AR-1717-0079

1. MORSE INTERCEPTOR BASIC NONCOMMISSIONED OFFICER (NCO)
2. ELECTRONIC WARFARE (EW)/SIGNALS INTELLIGENCE (SIGINT) MORSE INTERCEPTOR BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 231-98H30
Version 2: 231-05H30.

Location: Intelligence School, Ft. Devens, MA.

Length: *Version 1:* 6 weeks (218-220 hours). *Version 2:* 6-8 weeks (234-281 hours).

Exhibit Dates: *Version 1:* 1/91-3/94. *Version 2:* 1/90-12/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to manage and supervise personnel in the analysis of data for target identification and location including work assignments, and recordkeeping. *Version 2:* Upon completion of the course, the student will be able to manage and supervise personnel in the analysis of data for target identification and location including work assignments, and recordkeeping.

Instruction: *Version 1:* Instruction includes lectures, demonstrations and performance exercises in office practice, personnel supervision, report preparation, map reading, interpreting signal intelligence directions and target identification and location. *Version 2:* Instruction includes lectures, demonstrations and performance exercises in office practice, personnel supervision, report preparation, map reading, interpreting signal intelligence directions and target identification and location.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel management. See AR-1406-0090 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in office management procedures (7/88).

Related Occupations: 05H; 98H.

AR-1717-0082

UH-1 MAINTENANCE MANAGER/TEST PILOT

Course Number: 4D-SIB1/2C-SQIG; 4D-SIIE/2C-SQIG.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 8-14 weeks (483-488 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform all the duties of a manager/maintenance test pilot including repair and supply procedures, use of publications and logistics performance indicators, development of estimates and reports, use of forms and records, inspection of fuels, lubricants, hydraulics, electrical, flight controls, powerplants and performance analysis, rotor and powertrain systems, maintenance test flight and evaluations.

Instruction: Includes lectures, demonstrations, and performance exercises in maintenance officer responsibilities, logistics, aviation maintenance management, aeronautical technology, maintenance test flight and quality assurance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category,

3 semester hours in aviation maintenance management (10/91).

AR-1717-0083

AH-1S MAINTENANCE MANAGER/TEST PILOT

Course Number: 4D-SIG6/SQIG (AH 1); 4D-SIIM/2C-SQIG

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 13-14 weeks (482-492 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform all the duties of a manager/maintenance test pilot including repair and supply procedures, use of publications and logistics performance indicators, development of estimates and reports, use of forms and records, inspection of fuels, lubricants, hydraulics, electrical, flight controls, powerplants and performance analysis, rotor and powertrain systems, maintenance test flight and evaluations.

Instruction: Includes lectures, demonstrations, and performance exercises in maintenance officer responsibilities, logistics, aviation maintenance management, aeronautical technology, maintenance test flight and quality assurance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management (10/92).

AR-1717-0084

CH-47D MAINTENANCE MANAGER/TEST PILOT
(CH-47A/B/C Maintenance Manager/Test Pilot)

Course Number: 4D-SIG6/SQIG; 4D-SIC2/2C-SQIG; 4D-SIIB/2C-SQIG; 4D-SIIG/2C-SQIG.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 13-14 weeks (485 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform all the duties of a manager/maintenance test pilot including repair and supply procedures, use of publications and logistics performance indicators, development of estimates and reports, use of forms and records, inspection of fuels, lubricants, hydraulics, electrical, flight controls, powerplants and performance analysis, rotor and powertrain systems, maintenance test flight and evaluations.

Instruction: Includes lectures, demonstrations, and performance exercises in maintenance officer responsibilities, logistics, aviation maintenance management, aeronautical technology, maintenance test flight and quality assurance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management (6/91).

AR-1717-0085

OH-58A/C MAINTENANCE MANAGER/TEST PILOT

Course Number: 4D-SIG6/SQIG (OH-58A/C); 4D-SIIP/2C-SQIG.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 13 weeks (475 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform all the duties of a manager/maintenance test pilot including repair and supply procedures, use of publications and logistics performance indicators, development of estimates and reports, use of forms and records, inspection of fuels, lubricants, hydraulics, electrical, flight controls, powerplants and performance analysis, rotor and powertrain systems, maintenance test flight and evaluations.

Instruction: Includes lectures, demonstrations, and performance exercises in maintenance officer responsibilities, logistics, aviation maintenance management, aeronautical technology, maintenance test flight and quality assurance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management (10/92).

AR-1717-0086

OH-58D MAINTENANCE MANAGER/TEST PILOT

Course Number: 4D-SI1A/2C-SQIG.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 13-14 weeks (485 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform all the duties of a manager/maintenance test pilot including repair and supply procedures, use of publications and logistics performance indicators, development of estimates and reports, use of forms and records, inspection of fuels, lubricants, hydraulics, electrical, flight controls, powerplants and performance analysis, rotor and powertrain systems, maintenance test flight and evaluations.

Instruction: Includes lectures, demonstrations, and performance exercises in maintenance officer responsibilities, logistics, aviation maintenance management, aeronautical technology, maintenance test flight and quality assurance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management (3/88).

AR-1717-0087

UH-60 MAINTENANCE MANAGER/TEST PILOT

Course Number: 4D-SI1N/2C-SQIG.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 13-14 weeks (504 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform all the duties of a manager/maintenance test pilot including repair and supply procedures, use of publications and logistics performance indicators, development of estimates and reports, use of forms and records, inspection of fuels, lubricants, hydraulics, electrical, flight controls, powerplants and performance analysis, rotor and powertrain systems, maintenance test flight and evaluations.

Instruction: Includes lectures, demonstrations, and performance exercises in maintenance officer responsibilities, logistics, aviation maintenance management, aeronautical technology, maintenance test flight and quality assurance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management (3/88).

AR-1717-0089

1. UH-1 UTILITY HELICOPTER REPAIRER
SUPERVISOR BASIC NONCOMMISSIONED OFFICER (NCO)
2. UH-1 UTILITY HELICOPTER REPAIRER BASIC
NONCOMMISSIONED OFFICER (NCO)
3. UH-60 MAINTENANCE MANAGER/TEST PILOT
(4UH-1 Utility Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO))
(4UH-1 Utility Helicopter Basic Noncommissioned Officer (NCO))

Course Number: *Version 1:* 600-67N30. *Version 2:* 600-67N30. *Version 3:* 600-67N30.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 13-14 weeks (493 hours). *Version 2:* 12 weeks (352 hours). *Version 3:* 7-8 weeks (231 hours).

Exhibit Dates: *Version 1:* 10/91–Present. *Version 2:* 4/90–9/91. *Version 3:* 1/90–3/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hanger safety and will be able to supervise maintenance on fuel systems, pneumatic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control and flight control systems. *Version 2:* Upon completion of the course the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hanger safety and will be able to supervise maintenance on fuel systems, pneumatic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control and flight control systems. *Version 3:* Upon completion of the course the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hanger safety and will be able to supervise maintenance on fuel systems, pneumatic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control and flight control systems.

Instruction: *Version 1:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management. *Version 2:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management. *Version 3:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management and 2 in principles of supervision. See AR-1406-0090 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management and 2 in principles of supervision (6/91). *Version 3:* In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance management and 2 in principles of supervision. See AR-1406-0090 for common core credit (3/88).

Related Occupations: 67N.

AR-1717-0090

- AH-64 ATTACK HELICOPTER REPAIRER
SUPERVISOR BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 600-67R30. *Version 2:* 600-67R30. *Version 3:* 600-67R30.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 14 weeks (534 hours). *Version 2:* 14-15 weeks (430 hours). *Version 3:* 7-8 weeks (272 hours).

Exhibit Dates: *Version 1:* 10/91–Present. *Version 2:* 4/90–9/91. *Version 3:* 1/90–3/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hanger safety and will be able to supervise maintenance on fuel systems, pneumatic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control, and flight control systems. *Version 2:* Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hanger safety and will be able to supervise maintenance on fuel systems, pneumatic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control, and flight control systems. *Version 3:* Upon completion of the course, the student will be able to plan maintenance procedures and aviation inventories, and will also be familiar with data communication hardware and software, oil analysis programs, use of ground support equipment and precision tools. Student will establish policies and procedures for shop and hanger safety and will be able to supervise maintenance on fuel systems, pneumatic systems, electrical systems, utility systems, powerplants, rotor and drivetrain systems, aircraft structures, landing gear, aircraft weighing procedures, engine control, and flight control systems.

Instruction: *Version 1:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management. *Version 2:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management. *Version 3:* Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management.

sion 3: Lectures, demonstrations, and practical exercises in supervision, aircraft maintenance, and maintenance management.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management and 2 in principles of supervision. See AR-1406-0090 for common core credit (6/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management and 2 in principles of supervision (6/91). *Version 3:* In the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance management and 3 in principles of supervision. See AR-1406-0090 for common core credit (3/88).

Related Occupations: 67R.

AR-1717-0092

- PETROLEUM AND WATER SPECIALIST ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 8-77-C42. *Version 2:* 8-77-C42.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 12-13 weeks (453-460 hours). *Version 2:* 12 weeks (161 hours).

Exhibit Dates: *Version 1:* 10/91–9/95. *Version 2:* 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform petroleum supply, petroleum laboratory, and water treatment operations tasks. *Version 2:* Upon completion of the course, the student will be able to train noncommissioned officers in advancement management, petroleum storage and supply operations, and water operations.

Instruction: *Version 1:* Lectures and practical exercises in supply and distribution operations; waterfront and terminal operations; pipeline operations; aircraft refueling and defueling; operations; administration and planning; petroleum laboratory operations; and water treatment operations. *Version 2:* Lectures and practical exercises in supply and distribution operations; waterfront and terminal operations; pipeline operations; aircraft refueling and defueling; operations; administration and planning; petroleum laboratory operations; and water treatment operations.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in supervisory management, 3 in petroleum operations management, 2 in water operations management and 1 in laboratory science. See AR-1404-0035 for common core credit (2/93). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in supervisory management, 3 in petroleum operations management, and 2 in water operations management. See AR-1404-0035 for common core credit (10/88).

Related Occupations: 77F; 77L; 77W.

AR-1717-0093

- AH-64 MAINTENANCE MANAGER/TEST PILOT

Course Number: 4D-SIHL/2C-SQIG.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 15 weeks (568 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform all the duties of a manager-maintenance test pilot including repair and supply procedures, use of publications and logistics performance indicators, development of estimates and reports, use of forms and records, inspection of fuels, lubricants, hydraulics, electrical, flight controls, powerplants and performance analysis, rotor and powertrain systems, maintenance test flight and evaluations.

Instruction: Includes lectures, demonstrations, and performance exercises in maintenance officer responsibilities, logistics, aviation maintenance management, aeronautical technology, maintenance test flight and quality assurance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance management (3/88).

AR-1717-0094

MAINTENANCE MANAGEMENT

Course Number: 700.

Location: Reserve Readiness Training Center, Ft. McCoy, WI.

Length: 2 weeks (64 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise and manage personnel responsible for customer service, requisition, issue and turn in, property records and bulk petroleum accounts within proper authorization levels; supervise maintenance management systems including motor pool operation, material management, production/quality control and shop layout and design; manage and support personnel involved in records management, safety and security programs, physical safety of facilities, arms, ammunition and key controls; provide assistance in budget preparation, command maintenance policy directives and force integration actions and requirements.

Instruction: Lecture and discussion on rapport and cooperation with customers, requisition procedures, property records, authorization documents, petroleum accounting, maintenance management systems, motor pool operations, maintenance channels, production/quality controls, records management procedures, time management and effective communications skills; practical exercises include the student identifying and correcting a report of survey and statement of charges, preparing a consolidated material condition status report, designing a shop layout involving the flow of materials, efficient movement of personnel, and safety, and developing input into the budget system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management (7/89).

AR-1717-0095

STAFF/SUPPORT MAINTENANCE TECHNICIAN SENIOR WARRANT OFFICER

Course Number: 4-9-C32-915E (CT).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 11 weeks (400 hours).

Exhibit Dates: 5/90–Present.

Learning Outcomes: Upon completion of the course, the student will have been instructed in common military subjects that apply to support level supply management and equipment maintenance. Shop operation and maintenance management are covered.

Instruction: Lectures and practical exercises covering general military topics, communication skills, and professional development skills. Logistics topics include shop operations and maintenance management. Subjects include skills and knowledge required to properly utilize a service section, including machine shop and welding shop operations. Supervision and performance of maintenance on selected fuel and electrical system components and major assemblies are included, as is maintenance on selected heavy track vehicles; and supervision, adjustment, repair, and service of specific fighting vehicles.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in maintenance management (12/90).

Related Occupations: 915E.

AR-1717-0096

WARRANT OFFICER TECHNICAL/TACTICAL CERTIFICATION (Armament Repair Technician Warrant Officer Technical/Tactical Certification)

Course Number: 4E-913A.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 19 weeks (690 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to assume the duties and responsibilities of managing armament repair facilities and mobile power generation facilities.

Instruction: Instruction includes power generation, maintenance management, professional development subjects, communication skills, hydraulics and electrical troubleshooting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in communication skills and 3 semester hours in electrical laboratory industrial electricity (12/90); in the upper-division baccalaureate category, 3 semester hours in maintenance management (12/90).

Related Occupations: 913A.

AR-1717-0097

UNIT MAINTENANCE TECHNICIAN (LIGHT) WARRANT OFFICER TECHNICAL/TACTICAL CERTIFICATION RESERVE COMPONENT PHASES 2 AND 4

Course Number: 4L-915A-RC.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 4 weeks (227 hours).

Exhibit Dates: 1/90–Present.

Objectives: Upon completion of the course, the student will be able to perform the duties and responsibilities of maintenance management in wheeled vehicle repair facilities.

Instruction: Instruction includes management principle review, automotive electricity theory and application, power train theory, basic welding (Phases 1 and 3 are by correspondence).

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in maintenance management for Phase 2

and 1 in maintenance management for Phase 4 (12/90).

AR-1717-0098

UNIT MAINTENANCE TECHNICIAN (HEAVY) SENIOR WARRANT OFFICER RESERVE COMPONENT, PHASE 2 AND 4

Course Number: 4-9-C32-915D RC

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 4 weeks (222 hours).

Exhibit Dates: 6/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise maintenance operations on tanks under field conditions.

Instruction: Instruction methods include correspondence, lecture, shop repair procedures, and examination. Topics covered include communication techniques, inventory control, troubleshooting and repair of heavy electrical, fuel and hydraulic systems.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour maintenance management for Phase 2, and 1 semester hour maintenance management for Phase 4 (12/90).

AR-1717-0099

ALLIED TRADES TECHNICIAN SENIOR WARRANT OFFICER

Course Number: 4-9-C32-914A (CT).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 4-5 weeks (167 hours).

Exhibit Dates: 5/90–Present.

Learning Outcomes: Upon completion of the course, the student will have been instructed in common military subjects that apply to allied trade specialties, supply management, and maintenance management. Shop operations is also covered.

Instruction: Lectures and practical exercises covering general military topics, communication skills, and professional development skills. Logistics topics include shop operations and maintenance management. Students are provided with information affecting the future of maintenance trends in the metalworking field.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in maintenance management (12/90).

AR-1717-0100

ARMAMENT REPAIR TECHNICIAN SENIOR WARRANT OFFICER

Course Number: 4-9-C32-913A (CT).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 5 weeks (185 hours).

Exhibit Dates: 5/90–Present.

Learning Outcomes: Upon completion of the course, the student will have been instructed in common military subjects that apply to track specialties, supply management, and armament maintenance including appropriate weapons systems. Shop operations and maintenance management are covered.

Instruction: Lectures and practical exercises covering general military topics, communication skills, and professional development skills. Logistics topics include shop operations and maintenance management. Students are

provided with information affecting the future of armament maintenance and equipment changes.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in vehicle maintenance management (12/90).

AR-1717-0101

UNIT MAINTENANCE TECHNICIAN (HEAVY) SENIOR WARRANT OFFICER

Course Number: 4-9-C32-915D (CT).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 10-11 weeks (369-370 hours).

Exhibit Dates: 5/90-Present.

Objectives: Upon completion of the course, the student will have been instructed in common military subjects that apply to unit maintenance (heavy), logistic management and unit maintenance in mechanized infantry, armor battalions, and in cavalry squadrons. Shop operations and maintenance management are covered.

Instruction: Lectures and practical exercises covering general military topics, communication skills, and professional development skills. Logistics topics include shop operations and maintenance management. Subjects include skills required to supervise, troubleshoot, adjust, repair, and maintain specific combat tanks and fighting vehicles; and combat vehicle small arms systems.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in maintenance management (12/90).

AR-1717-0102

REPAIR SHOP TECHNICIAN, WARRANT OFFICER
TECHNICAL/TACTICAL CERTIFICATION,
PHASES 2 AND 4

Course Number: 4L-914A-RC.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 4 weeks (217 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the duties of maintenance management on wheeled and tracked vehicles and armament.

Instruction: Instruction includes maintenance management, welding, machining with lathes and milling machines

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in general machine tool, Phase 2 and 2 in general welding, Phase 4 (12/90); in the upper-division baccalaureate category, 3 semester hours in maintenance management (12/90).

AR-1717-0103

ARMAMENT REPAIR TECHNICIAN WARRANT
OFFICER TECHNICAL/TACTICAL
CERTIFICATION, PHASE 2 AND 4

Course Number: 4E-913A-RC.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: Phase 2, 2 weeks (119 hours); Phase 4, 2 weeks (114 hours)

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to assume

the duties and responsibilities for management of armament repair facilities.

Instruction: Instruction includes power supplies and rectifiers, basic digital circuits, trouble shooting with oscilloscope.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in DC circuits for Phase 2 only (12/90).

AR-1717-0104

SUPPORT MAINTENANCE TECHNICIAN SENIOR
WARRANT OFFICER RESERVE COMPONENT,
PHASES 2 AND 4

Course Number: 4-9-C32-915E-RC.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: Resident, 4 weeks (227 hours).

Exhibit Dates: 7/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform supervisory duties in vehicle maintenance operations, primarily tracked and wheeled vehicles.

Instruction: Instruction includes lectures, correspondence, shop practice, and written exams. Topics include military history, management and inventory control methods, and troubleshooting diesel and hydraulic systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in vehicle maintenance management for Phase 2, and 1 in vehicle maintenance management for Phase 4 (12/90).

AR-1717-0105

ARMAMENT REPAIR TECHNICIAN SENIOR WARRANT
OFFICER RESERVE COMPONENT PHASE 2

Course Number: 4-9-C32-913A.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 2 weeks (114 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise the activities of armament repair technicians.

Instruction: Phase 2 methods include lecture/demonstration practical exercises. Topics covered include inventory control, logistic management, and communication skills.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in maintenance management (12/90).

AR-1717-0106

REPAIR SHOP TECHNICIAN SENIOR WARRANT
OFFICER RESERVE COMPONENT

Course Number: 4-9-C32-914A-RC.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 2 weeks (114 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise the activities of allied trades technicians.

Instruction: Methods of instruction include lecture, demonstration, and practical exercise. Topics include training management, inventory control, and communication skills.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in maintenance management (12/90).

AR-1717-0107

ORDNANCE OFFICER ADVANCED MAINTENANCE
MANAGEMENT

Course Number: 4-9-C22-91B.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 20 weeks (728 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the duties of management at company grade officer level in maintenance companies. Primary emphasis on material development, testing, and procurement.

Instruction: Methods of instruction include lecture, demonstration, field exercises, guest lectures, field trips, graded examinations. Topics include material handling flow charts; procurement systems from design through completion, purchasing systems, computerized applications, and wholesale supply.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in maintenance management and 3 in logistics management (12/90); in the graduate degree category, 3 semester hours in management practicum (12/90).

AR-1717-0108

TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT
(TMDE) MAINTENANCE SUPPORT
TECHNICIAN WARRANT OFFICER
TECHNICAL AND TACTICAL CERTIFICATION

Course Number: 4B-918A.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 15-16 weeks (560 hours).

Exhibit Dates: 10/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to demonstrate shop management skill, a general knowledge of tactical operations, logic, computers and microprocessor concepts.

Instruction: This course provides instruction in tactical certification subjects and maintenance management, logic, computers and microprocessors.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance (shop) management, 3 in digital logic, 2 in introduction to data processing, and 2 in microprocessors (8/91).

AR-1717-0109

TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT
(TMDE) MAINTENANCE SUPPORT
TECHNICIAN SENIOR WARRANT OFFICER

Course Number: 4-9-C32-918A.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 8-9 weeks (308 hours).

Exhibit Dates: 10/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to make policy for company mission/activities, calibration/maintenance directives and manage technology training programs. Students will also be able to perform tasks such as directing, evaluation, and reporting quality assurance/control, maintenance support, and supply systems.

Instruction: A balanced program of lecture and practical exercises in management duties and responsibilities, production and control.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in maintenance management (8/91).

AR-1717-0162

APPRENTICE AIRCRAFT METALS TECHNOLOGY
SPECIALIST

Course Number: 702-45830

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 7 weeks (288 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify and safely use small metalworking hands tools, and be competent in the operation of lathes, milling, and boring machines. The student will also be competent in the use of bandsaws and other specialized machine tools. Competence is also acquired in cutting tool design and sharpening techniques.

Instruction: Lecture-demonstrations in the safe use of metal working hand tools and large machine tools. Students have extensive laboratory practice and guidance in machine tool use and cutting tool sharpening techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic metalworking, 6 in metal machine tools, and 2 in cutting tool design (12/90).

AR-1719-0004

VISUAL INFORMATION/AUDIO DOCUMENTATION
SYSTEMS SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* G3AZR23270 001 (25P30); *Version 2:* G3AZR23270 001 (25P30); *Version 2:* G3AZR23270 001 (25P30); G3AZR23270 001.

Location: Technical Training Center, Lowry AFB, CO.

Length: *Version 1:* 7-8 weeks (290 hours). *Version 2:* 6-7 weeks (216-257 hours).

Exhibit Dates: *Version 1:* 10/91–Present. *Version 2:* 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to manage media systems or teams involving film editing, writing, and other critical graphic arts, photographic and maintenance skills. *Version 2:* Upon completion of the course, the student will be able to manage a media system or a team involving film editing, writing, and other critical graphic arts, photographic and maintenance skills.

Instruction: *Version 1:* Lectures, demonstrations, and practical exercises in management of television production, graphic facilities, television maintenance, computer technology, photographic facilities and other audio-visual operations. *Version 2:* Lectures and practical exercises in management of television production, motion picture production, and other audio visual operations. Course also includes a common core of leadership subjects.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in audio/visual management (10/94). *Version 2:* In the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (5/90); in the upper-division baccalaureate category, 3 semester hours in audio visual management (5/90).

Related Occupations: 25P.

AR-1719-0005

VISUAL INFORMATION ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 4-84-C42/G3AAR23199 000. *Version 2:* G3AAR23199 000.

Location: Technical Training Center, Lowry AFB, CO.

Length: *Version 1:* 11 weeks (417 hours). *Version 2:* 9-10 weeks (358 hours).

Exhibit Dates: *Version 1:* 10/91–Present. *Version 2:* 1/90–9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to lead and to manage visual information facilities and organizations including training, planning, supervising, and directing visual information documentation operations. *Version 2:* Upon completion of the course, the student will be able to lead and train others in planning, supervising, and directing the operation of visual information facilities and organizations. This includes photographic, television, documentation, and graphic production operations.

Instruction: *Version 1:* Lectures, demonstrations, and practical exercises are the primary forms of instruction. Topics covered include computer training, basic management of graphics, still documentation, motion media production, maintenance, and combat camera operations. Includes management of production functions to include visual aids preparation, computer graphics, traditional photographic procedures, still video camera systems, and historical documentation procedures. The course also includes a core of leadership subjects. *Version 2:* Lectures and practical exercises in the management of motion picture production, visual aids preparation, computer graphics, photographic procedures, still video camera systems, historical documentation procedures, and maintenance facilities. Course also includes a common core of leadership subjects.

Credit Recommendation: *Version 1:* In the upper-division baccalaureate category, 3 semester hours in audio-visual management (7/94). *Version 2:* In the lower-division baccalaureate/associate degree category, see AR-1404-0035 for common core credit (5/90); in the upper-division baccalaureate category, 3 semester hours in audio visual management (5/90).

AR-1720-0001

MARINE CORPS NUCLEAR, BIOLOGICAL, CHEMICAL
(NBC) DEFENSE

Course Number: 2G-5702; 494-5711.

Location: Chemical School, Ft. McClellan, AL.

Length: Phase I, 5 weeks (180 hours); Phase II, 3 weeks (288 hours).

Exhibit Dates: 1/90–6/95.

Objectives: To train selected US Marine Corps officers, warrant officers, noncommissioned officers, and enlisted personnel as nuclear, biological, and chemical defense personnel.

Instruction: Phase I consists of conferences, demonstrations, practical exercises, and examinations in chemical/biological defense and operations, including nuclear warfare and radiological defense, and decontamination. Phase II consists of conferences, demonstrations, practical exercises, and examinations in nuclear warfare and radiological defense, chemical and biological defense and operations,

decontamination, and nuclear and chemical target analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to physical sciences for Phase I and 3 semester hours in introduction to physical sciences for Phase II (11/86).

AR-1720-0002

PRIME POWER PRODUCTION SPECIALIST (HEALTH
PHYSICS AND PLANT CHEMISTRY
SPECIALTY)

Course Number: None.

Location: Prime Power Production School, Ft. Belvoir, VA; Engineer Reactors Group, Ft. Belvoir, VA.

Length: 41-43 weeks (1477 hours).

Exhibit Dates: 1/90–3/92.

Objectives: To provide enlisted personnel with the skills and knowledge necessary to operate and maintain nuclear/conventional power plants and to perform as specialists in all health/biological/chemical/radiological monitoring systems of nuclear/conventional power plants.

Instruction: Students complete academic phase training which covers algebra, trigonometry and general mathematics, general physics, chemistry, A/C circuits analysis, D/C circuits analysis, and mechanical engineering (thermodynamics) prior to specialty training. Specialty concentration provides enlisted personnel with a working knowledge of water chemistry and health physics. Upon completion of program, student will be able to perform tests in health monitoring, chemical analysis, and water treatment and analysis. Lectures and practical experiences include fundamentals of electrical and mechanical systems. Operator phase is equivalent to cooperative work experience in professional practice or real-life situations. This phase may be considered for credit dependent on policies of receiving institution with regard to cooperative work experience.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in mathematics, 6 in physics, 2 in chemistry, 3 in thermodynamics, 3 in mechanical engineering, 3 in DC circuits and analysis, 3 in AC circuits and analysis, 3 in motors and generators, 6 in general chemistry, 3 in water analysis and treatment, and 0-6 in cooperative work experience (1/81); in the upper-division baccalaureate category, 6 semester hours in health physics (1/81).

Related Occupations: 52E; 52L; 52M.

AR-1720-0003

PRIME POWER PRODUCTION SPECIALIST
(ELECTRICAL SPECIALTY)

Course Number: None.

Location: Prime Power Production School, Ft. Belvoir, VA; Engineer Reactors Group, Ft. Belvoir, VA.

Length: 48-50 weeks (1729 hours).

Exhibit Dates: 1/90–3/92.

Objectives: After 3/92 see AR-1720-0009. To provide enlisted personnel with the skills and knowledge necessary to operate and maintain nuclear/conventional power plants and to perform as specialists in the maintenance of all electrical systems of nuclear/conventional power plants.

Instruction: Students complete academic phase which covers algebra, trigonometry, general mathematics, general physics, chemistry, A/C circuits analysis, D/C circuits analysis, and mechanical engineering to include thermodynamics. Specialty phase includes analysis of power plant electrical systems including motors and generators, transformers, instrumentation, and protection apparatus. Includes control circuits, regulations and preventive maintenance procedures. Operator phase is equivalent to cooperative work experience in professional practice or real-life situations. This phase may be considered for credit dependent on policies of receiving institution with regard to cooperative work experience.

Credit Recommendation: In the vocational certificate category, 2 semester hours in automatic controls, 3 in electrical wiring, 5 in power distribution, and 2 in air conditioning (8/81); in the lower-division baccalaureate/associate degree category, 3 semester hours in industrial electronics, 1 in active devices, 2 in instrumentation, 6 in mathematics, 6 in physics, 2 in chemistry, 3 in DC circuits analysis, 3 in AC circuits analysis, 3 in thermodynamics, 3 in mechanical engineering, 3 in motors and generators, and 0-6 in work experience or practicum (8/81).

Related Occupations: 52E; 52J; 52M.

AR-1720-0004

PRIME POWER PRODUCTION SPECIALIST
(MECHANICAL SPECIALTY)

Course Number: None.

Location: Prime Power Production School, Ft. Belvoir, VA; Engineer Reactors Group, Ft. Belvoir, VA.

Length: 49-52 weeks (1745 hours).

Exhibit Dates: 1/90-3/92.

Objectives: After 3/92 see AR-1720-0011. To provide enlisted personnel with the skills and knowledge necessary to operate and maintain nuclear/conventional power plants and to perform as specialists in all mechanical systems of nuclear/conventional power plants.

Instruction: Students complete academic phase which covers algebra, trigonometry, and general mathematics, general physics, chemistry, A/C circuits analysis, D/C circuits analysis, and mechanical engineering. Course includes lectures and practical exercises to cover electrical and mechanical components of power plants, and the operation and maintenance of its auxiliary standby, and related equipment. Course includes electronic components, cable splicing, boilers, vibration analysis and steam engines. Operation phase is equivalent to cooperative work experience in professional practice or real-life situations. This phase may be considered for credit dependent on policies of receiving institution with regard to cooperative work experience.

Credit Recommendation: In the vocational certificate category, 2 semester hours in welding, 4 in basic machine shop, 6 in engines, 2 in industrial electronics, 4 in boilers and heat exchangers, and 2 in air conditioning (8/81); in the lower-division baccalaureate/associate degree category, 6 semester hours in mathematics, 6 in physics, 2 in chemistry, 3 in thermodynamics, 3 in mechanical engineering, 3 in DC circuit analysis, 3 in AC circuit analysis, 3 in motors and generators, and 0-6 in work experience or practicum (8/81).

Related Occupations: 52E; 52H; 52M.

AR-1720-0005

PRIME POWER PRODUCTION SPECIALIST
(INSTRUMENTATION SPECIALTY)

Course Number: None.

Location: Prime Power Production School, Ft. Belvoir, VA; Engineer Reactors Group, Ft. Belvoir, VA.

Length: 48-50 weeks (1777 hours).

Exhibit Dates: 1/90-3/92.

Objectives: After 3/92 see AR-1720-0010. To provide enlisted personnel with the skills and knowledge necessary to operate and maintain nuclear/conventional power plants and to perform as specialists in all electrical and mechanical systems of nuclear/conventional power plants.

Instruction: Academic phase covers algebra, trigonometry and general mathematics, general physics, chemistry, A/C circuit analysis, D/C circuit analysis and mechanical engineering including thermodynamics. Sensors and measurement technology, electronics for instrumentation, signal processing, elements of automatic control including controllers and their tuning. Course also includes amplifiers, digital systems, process instruments, active devices, automatic control and piping systems. Operator phase is equivalent to cooperative work experience in professional practice or real-life situations. This phase may be considered for credit dependent on policies of receiving institution with regard to cooperative work experience.

Credit Recommendation: In the vocational certificate category, 3 semester hours in air conditioning and 3 in pipe fitting (8/81); in the lower-division baccalaureate/associate degree category, 8 semester hours in active devices, 7 in mathematics, 3 in digital fundamentals, 1 in microprocessors, 5 in instrumentation/ process control, 3 in physics, 2 in chemistry, 3 in thermodynamics, 3 in mechanical engineering, 3 in DC circuits analysis, 3 in AC circuits analysis, 3 in motors and generators, and 0-6 work experience or practicum (8/81).

Related Occupations: 52E; 52K; 52M.

AR-1720-0007

NUCLEAR, BIOLOGICAL, CHEMICAL (NBC)
DEFENSE
(Nuclear, Biological, Chemical (NBC)
Defense Officer Noncommissioned
Officer (NCO))

Course Number: 2E-ASI3R/494-SQIC.

Location: Chemical School, Ft. McClellan, AL; Reserve Schools, Continental USA; National Guard Academies, Continental USA.

Length: Self-paced, 1-3 weeks (50-80 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide active Army and reserve components of all MOS's with the skills necessary to perform those duties required of the NBC defense officers or NCOs at battalion and company level.

Instruction: Through the use of films and practical experiences such topics as survival in a chemical, biological and nuclear environment are taught. Other areas covered include chemical and nuclear equipment and maintenance, logistics, radiological monitoring and smoke operations and decontamination.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/86).

AR-1720-0008

ORDNANCE OFFICER ADVANCE NUCLEAR MATERIEL
MANAGEMENT
(Ordnance Officer Advanced Nuclear Weapons Materiel Management)

Course Number: 4E-F0A-F9.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 2 weeks (72 hours).

Exhibit Dates: 1/90-1/96.

Objectives: To prepare the company grade ordnance officer to function effectively while assigned to an ordnance nuclear weapons unit.

Instruction: Training includes logistics management, budget system overview and mission area analysis. Also includes ammunition industrial base management.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (1/88).

Related Occupations: 91D.

AR-1720-0009

PRIME POWER PRODUCTION SPECIALIST,
ELECTRICAL SPECIALTY

Course Number: 661-52E-ASI-S3.

Location: Prime Power Production School, Ft. Belvoir, VA.

Length: 17-18 weeks (587 hours).

Exhibit Dates: 4/92-Present.

Learning Outcomes: Before 4/92 see AR-1720-0003. Upon completion of the course, the student will be qualified as a powerplant electrician in the operations, maintenance, testing, repair, and troubleshooting of electrical and electronic components found in military electrical power and distribution equipment and systems.

Instruction: Lectures, practical exercises, and conferences on AC/DC fundamentals, transistors, amplifiers, power supplies, electrical safety, transformers, motors and generators, motor controllers, cable splicing, power distribution, and circuit breakers.

Credit Recommendation: In the vocational certificate category, 1 semester hour in maintenance and repair of electrical safety control circuits, 1 in application of solid state devices and circuits, 2 in maintenance and repair of transformers, rotating machines and auxiliary controls, 1 in power cable repair and maintenance, and 1 in power system maintenance (9/94); in the lower-division baccalaureate/associate degree category, 2 semester hours in solid state electronics, 3 in DC/AC machines and transformers, and 4 in power distribution system maintenance (9/94).

AR-1720-0010

PRIME POWER PRODUCTION INSTRUMENTATION
SPECIALIST

Course Number: 661-52E/ASI-E5.

Location: Prime Power Production School, Ft. Belvoir, VA.

Length: 16-18 weeks (595 hours).

Exhibit Dates: 4/92-Present.

Learning Outcomes: Before 4/92 see AR-1720-0005. Upon completion of the course, the student will be able to maintain, troubleshoot, and repair instrumentation equipment associated with prime power generation equipment, and uses proper safety procedures.

Learning Outcomes: Lectures and practical exercises in function and application of

electrical and electronic test equipment, review of DC/AC circuits, solid state devices, basic transistor amplifier circuits, differential amplifiers, operational amplifiers, digital logic, D/A converters, relay theory and maintenance process instrumentation, and automatic control systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in maintenance and troubleshooting of solid state components and electronic circuits, 1 in maintenance and troubleshooting of power system protective relays, and 2 in calibration, and maintenance and process instruments (9/94); in the lower-division baccalaureate/associate degree category, 3 semester hours in industrial electronics, 5 in electronic devices and circuits, and 3 in instrumentation/process control (9/94).

AR-1720-0011

PRIME POWER PRODUCTION SPECIALIST,
MECHANICAL SPECIALTY

Course Number: 661-52E20/S2.

Location: Prime Power Production School, Ft. Belvoir, VA.

Length: 16-17 weeks (582 hours).

Exhibit Dates: 4/92-Present.

Learning Outcomes: Before 4/92 see AR-1720-0004. Upon completion of the course, the student will be able to perform troubleshooting, maintenance, testing, and repair of mechanical systems and components found in mobile electrical power generation plants.

Instruction: Lectures and practical exercises in machine shop practices, gas welding, piping systems, valves, pumps, heat exchangers, speed control, diesel engines, gas turbines, steam turbines, boilers, and vibration analysis.

Credit Recommendation: In the vocational certificate category, 3 semester hours in basic machine shop, hand tools, and necessary equipment, 1 in gas welding and soldering technology, 3 in piping systems construction, operations, and maintenance, 1 in heat exchanger operation and maintenance, 1 in mechanical speed control systems, 6 in diesel operations and maintenance, 3 in gas turbine operation and maintenance, and 1 in vibration measurement (7/93); in the lower-division baccalaureate/associate degree category, 3 semester hours in fluid flow and heat transfer systems, 4 in internal combustion engine technology (diesel and gas turbine), and 3 in steamplant systems, turbines, boilers, heat exchangers, and condensers (7/93).

AR-1720-0012

PRIME POWER PRODUCTION SPECIALIST, PHASES 1
AND 2

Course Number: 661-52E20.

Location: Prime Power Production School, Ft. Belvoir, VA.

Length: 15 weeks (474-508 hours).

Exhibit Dates: 4/92-Present.

Learning Outcomes: Upon completion of the academic phase of the course, the student will be able to understand basic AC/DC concepts, apply various electrical measurement techniques, understand the theory and operation of AC/DC machinery, understand three-phase electrical systems, understand the operation of electrical protective devices, and understand proper electrical safety procedures. Upon completion of the operator Training phase, the students will be able to operate, maintain, and

troubleshoot special power generation equipment (diesel and gas turbine powered), practice proper safety procedures, interpret electrical and mechanical schematics, and all types of wiring diagrams.

Instruction: For the academic training phase. Lectures, practical exercises, and conferences about basic algebra and trigonometry, physics of motion, fundamentals of thermodynamics, fundamentals of DC and AC circuits, reading circuit diagrams, using relays and circuit-breakers and proper lubrication procedures. For the operator training phase: Lectures and practical exercises in power plant technology, specifically diesel and gas turbine generators, reading and interpreting electrical and mechanical schematics and diagrams, maintenance and troubleshooting of electrical generators, electrical protection devices, and proper safety procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electrical/mechanical blueprint (schematics and diagrams) reading, 3 in electrical power generation, distribution, and control, 4 in diesel engine operation and maintenance, and 3 in gas turbine operation and maintenance (9/94); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical power distribution, 2 in electrical power generation, 2 in internal combustion engine technology, 0-6 in cooperative education, 3 in technical mathematics, 3 in physics of mechanics, 3 in DC circuits, 3 in AC circuits, 3 in thermodynamics, 3 in AC/DC machinery, and 1 in electrical safety (9/94).

AR-1721-0002

FIRE CONTROL INSTRUMENT REPAIR
(Optical Instrument Repairman (USMC))

Course Number: 670-41C10 (CT).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 15-16 weeks (564-565 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to inspect, adjust, and repair optical, nonoptical, and electrical precision instruments and related equipment.

Instruction: Lectures and practical exercises in optics fundamentals and repair techniques; care and use of common hand tools and measuring instruments; inspection and troubleshooting of binoculars, periscopes, telescopes, aiming circles, and tank fire control systems; and diagnosis and repair of electromechanical computers and gun aiming systems. Training includes telescope mount, periscope (passive) and mount and panel assemblies. The course includes basic concepts of electricity including testing, inspection, and troubleshooting of electrical circuits; inspection and repair of binoculars, periscopes, telescopes, aiming circles, mounts and artillery, and tank fire control mechanisms.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in optical instrument repair, 3 in basic automotive electricity, and 5 in basic electricity and electronics (9/90).

Related Occupations: 09B; 41C.

AR-1722-0002

WATERCRAFT OPERATOR
(Watercraft Operator)

(Crewman)

Course Number: 062-88K10, 062-76B10

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 6-7 weeks (240-282 hours)

Exhibit Dates: 1/90-12/91

Objectives: After 12/91 see AR-1722-0008

To provide enlisted personnel at the entry level with a working knowledge of the duties and responsibilities of a watercraft operator on Army watercraft and amphibians

Instruction: Lectures and practical exercises in ships radio communication and code flags; rigging; piloting, navigation, and charts; and watercraft operations

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in seamanship (6/91).

Related Occupations: 61A; 61B.

AR-1722-0004

WATERCRAFT OPERATOR CERTIFICATION
(Watercraft Operator Primary Technical)

Course Number: 062-F5; 062-61B20.

Location: Transportation School, Ft. Eustis, VA.

Length: 5-6 weeks (178-190 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel to operate watercraft and serve in senior positions aboard vessels two with to four crewmen.

Instruction: Lectures and practical exercises in marlinespike seamanship, meteorology, vessel communications, piloting and coastwise navigation, and shipboard first aid.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in navigation, 1 in safety, and 1 in seamanship (6/91).

Related Occupations: 61B.

AR-1722-0005

MARINE DECK OFFICER A2 CERTIFICATION (SQI2)

Course Number: 8C-SQI2 (880A).

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 17 weeks (613 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to command, operate, and maintain watercraft in open ocean waters for towing, salvage, and resupply operations; be responsible for ship's business, beach and port evaluation, damage control, ship repair, first aid, and lifesaving and firefighting equipment, cargo operation, meteorology, electronic and celestial navigation, piloting and advanced shiphandling and communications. Student will command the docking and undocking of large vessels and also the convoy and towing operations. Navigation systems covered are LORAN, OMERGA, NAVSAT, RDF and marine radar.

Instruction: Lectures and practical exercises in general marine subjects, piloting and sailing, electronic navigation, advanced shiphandling, celestial navigation, followed by a 192 hour shipboard training exercise 80 hours at night. Student will complete the comprehensive examination for Master of Class A2 Unlimited Motor Vessels Upon Oceans and the Coast Guard Radar Observer Certifications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in marine piloting, 3 in

celestial navigation, 3 in electronic navigation, 3 in advanced shiphandling, and 4 in practicum in open water ship operation (6/91).

Related Occupations: 500A; 880A.

AR-1722-0006

MARINE DECK OFFICER WARRANT OFFICER BASIC
(Marine Deck Officer Warrant Officer Technical Certification)

Course Number: 8C-880A.

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 31-32 weeks (1153-1216 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to serve as a licensed master of class A-1 motor vessels, as a mate of A-2 motor vessels, or as a marine radar observer; supervise deck and engine students in common marine subjects, ship firefighting, damage control, general deck seamanship, and cargo handling. Student will have a working knowledge of visual and radio communications, navigation rules, radar vector analysis, charts, publications, tide tables and weather. The student will also be able to use the marine sextant and magnetic compass, marine radar, celestial and electronic navigation. The student will be issued the Coast Guard Marine Radar Observer's Certificate.

Instruction: Lectures, demonstrations, practical exercises, and hands on training to certified as a marine deck officer.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision, 3 in deck seamanship, 3 in radar navigation, 3 in celestial navigation, 3 in piloting, 3 in ship handling, and 6 in practicum in inland and open water ship operation (10/92).

Related Occupations: 880A.

AR-1722-0007

WATERCRAFT ENGINEER CERTIFICATION (88L20)

Course Number: 652-F2.

Location: Transportation School, Ft. Eustis, VA; Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: 14-15 weeks (531-557 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform marine engineering tasks and successfully complete the marine certification examination.

Instruction: Lectures and practical exercises in the identification, inspection, operation, maintenance, and overhaul of marine electrical equipment, refrigeration systems, diesel fuel injection equipment, high speed diesel engine overhaul, and oxyacetylene and arc welding.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in marine electrical systems, 3 in diesel fuel injection systems, 3 in diesel engine overhaul, and 2 in oxyacetylene and arc welding (3/94).

Related Occupations: 88L.

AR-1722-0008

WATERCRAFT OPERATOR

Course Number: 062-88K10.

Location: Transportation School, Ft. Eustis, VA.

Length: 6 weeks (217 hours).

Exhibit Dates: 1/92–Present.

Learning Outcomes: Before 1/92 see AR-1722-0002. Upon completion of the course, the student will be able to perform fire fighting techniques, water survival, watercraft safety, seamanship skills, and operation of watercraft.

Instruction: Lectures and physical application of fire fighting, water survival/rescue, and watercraft safety and operation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in seamanship, 1 in water safety, and 1 in fire fighting (3/94).

Related Occupations: 88K.

AR-1723-0008

MACHINIST

(Apprentice Machinist)

Course Number: *Version 1:* 702-44E10; 702-2161. *Version 2:* 702-44E10; 702-42730; 702-2161.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 13-14 weeks (486 hours). *Version 2:* 14-16 weeks (504-540 hours).

Exhibit Dates: *Version 1:* 7/91–Present. *Version 2:* 1/90–6/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to fabricate metal parts by using metal working tools and equipment such as lathes, milling machines, shapers, grinders, and heat treating techniques. *Version 2:* Upon completion of the course, the student will be able to fabricate metal parts by using metal working tools and equipment such as lathes, milling machines, shapers, grinders, and heat treating techniques.

Instruction: *Version 1:* Practical exercises in the use of the metal working tools and equipment are stressed. *Version 2:* Practical exercises in the use of the metal working tools and equipment are stressed.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 10 semester hours in machine tool technology (7/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 10 semester hours in machine tool technology (12/90).

Related Occupations: 44E.

AR-1723-0009

MACHINIST BASIC NONCOMMISSIONED OFFICER
(NCO)

Course Number: *Version 1:* 702-44E30 (44B). *Version 2:* 702-44E30 (44B).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 14-15 weeks (522 hours). *Version 2:* 17-18 weeks (632 hours).

Exhibit Dates: *Version 1:* 12/91–Present. *Version 2:* 1/90–11/91.

Objectives: *Version 1:* To train enlisted personnel with MOS 44E20 or 44B20 to supervise and perform the duties of metalworker and machinist at skill level 30. This version is pending evaluation. *Version 2:* To train enlisted personnel with MOS 44E20 or 44B20 to supervise and perform the duties of metalworker and machinist at skill level 30.

Instruction: *Version 1:* Lectures and practical exercises in leadership training, the non-commissioned officer in a tactical environment, general military as well as logistical training,

advanced training in metal working and the machine trades. Those in MOS 44B will also receive basic training in the machine trades to include lecture and practical exercises in shop fundamentals, vertical bandsaw, lathe, milling machine, and lathe attachments. This version is pending evaluation. *Version 2:* Lectures and practical exercises in leadership training, the noncommissioned officer in a tactical environment, general military as well as logistical training, advanced training in metal working and the machine trades. Those in MOS 44B will also receive basic training in the machine trades to include lecture and practical exercises in shop fundamentals, vertical bandsaw, lathe, milling machine, and lathe attachments.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, for those completing the 44B track, 1 semester hour in supervision/management, 4 in machine lathe operation, 1 in milling machine operation, 5 in advanced machine shop, and 2 in advanced metal work. See AR-1406-0090 for common core credit (3/87).

Related Occupations: 44B; 44E.

AR-1723-0010

MACHINIST NONCOMMISSIONED OFFICER (NCO)

ADVANCED

(Mechanical Maintenance Noncommissioned Officer (NCO) Advanced, MOS 44E)

Course Number: 702-44E40; 6-63-C42 (44E).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 7-9 weeks (251-398 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to apply the skills and technical knowledge and serve as a supervisor in the selected military occupational specialty (MOS) for which trained.

Instruction: Lectures, demonstrations, and practical exercises in leadership, communication skills, fundamentals of instruction, logistics management, and refresher training in the appropriate military occupational specialty (MOS). Emphasis in on leadership and on verbal and written communication.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (1/88).

AR-1723-0011

METALWORKER BASIC NONCOMMISSIONED OFFICER
(NCO)

(Machinist Basic Noncommissioned Officer (NCO))

Course Number: *Version 1:* 702-44E30. *Version 2:* 702-44E30.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: *Version 1:* 12 weeks (427-428 hours). *Version 2:* 14-15 weeks (538 hours).

Exhibit Dates: *Version 1:* 12/91–Present. *Version 2:* 1/90–11/91.

Objectives: *Version 1:* To train enlisted personnel with MOS 44E20 or 44B20 to supervise and perform the duties of metalworker and machinist at skill level 30. *Version 2:* To train enlisted personnel with MOS 44E20 or 44B20 to supervise and perform the duties of metalworker and machinist at skill level 30.

Instruction: *Version 1:* Lectures and practical exercises in leadership training, the non-commissioned officer in a tactical environment, general military as well as logistical training, advanced training in metal working and the machine trades. Those in MOS 44E will receive lectures and practical exercises in shop fundamentals, oxyacetylene, electric arc, and inert gas welding, metal body, radiator, glassworking, and fuel tank repair as well as metal body painting. *Version 2:* Lectures and practical exercises in leadership training, the non-commissioned officer in a tactical environment, general military as well as logistical training, advanced training in metal working and the machine trades. Those in MOS 44E will receive lectures and practical exercises in shop fundamentals, oxyacetylene, electric arc, and inert gas welding, metal body, radiator, glassworking, and fuel tank repair as well as metal body painting.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, for those completing the 44E track, 1 semester hours in supervision/management, 2 in oxyacetylene welding, 1 in electric arc welding, 1 in MIG and TIG welding, 1 in advanced welding, 3 in automotive body repair, and 2 in advanced metal work. See AR-1406-0090 for common core credit (3/87).

Related Occupations: 44B; 44E.

AR-1728-0007

CORRECTIONAL SPECIALIST

(Basic Corrections)
(Basic Correctional Specialist)

Course Number: 830-95C10; 95C10-OSUT; 831-95C10.

Location: Military Police School, Ft. McClellan, AL.

Length: Self-paced, 6-14 weeks (224-671 hours).

Exhibit Dates: 1/90-4/92.

Objectives: To provide enlisted personnel with training necessary to perform duties as an entry-level correctional specialist.

Instruction: Seminars and self-paced instruction on correctional security, custody, and control; basic marksmanship; and treatment of prisoners. May include up to 8 weeks of basic training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in correctional security (3/82).

Related Occupations: 95C.

AR-1728-0008

POLYGRAPH EXAMINER TRAINING

(Lie Detection)
(Lie Detector Operation)

Course Number: 7H-F11.

Location: Military Police School, Ft. McClellan, AL.

Length: 12-14 weeks (446-532 hours).

Exhibit Dates: 1/90-9/90.

Objectives: After 9/90 see DD-1728-0001. To qualify military and federal civilian investigative/intelligence personnel as polygraph examiners.

Instruction: Polygraph theory and maintenance management; mental and physical evaluation of examinee; polygraph instrumentation and examination; post-test procedures, practical

exercises in zone comparison, peak of tension, and general question techniques.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in interviews and interrogations and 3 in applied psychology (11/86); in the graduate degree category, 6 semester hours in a forensic science or criminal justice elective and 1-3 in research (based upon institutional evaluation of individual research project) (11/86).

Related Occupations: 951A; 951C; 951D; 951E; 951F; 951G.

AR-1728-0010

CRIMINAL INVESTIGATION

Course Number: 7H-951A; 19-0E-12; 7H-951A/832-95D10; 832-95D10.

Location: Military Police School, Ft. McClellan, AL.

Length: 15 weeks (559-582 hours).

Exhibit Dates: 1/90-Present.

Objectives: To qualify enlisted personnel and warrant officers for criminal investigation duty in field units of the Army Criminal Investigation Command.

Instruction: Operation and administration of criminal investigation units; methods and techniques of investigation; crime scene investigation; collection, evaluation and preservation of evidence; death investigation; investigation of crimes against people; investigation of crimes against property; capabilities and limitations of scientific analysis of evidence; investigative photography; fingerprinting and report writing and testifying in court.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in criminal investigation, 3 in criminal evidence/court procedures, 3 in introduction to criminalistics, and 3 in commercial security (11/86); in the upper-division baccalaureate category, 3 semester hours in controlled substances (drugs) (11/86).

Related Occupations: 951A; 951C; 951D; 951E; 951F; 951G; 95D.

AR-1728-0023

BASIC MILITARY POLICE

(Law Enforcement)
(Military Policeman)

Course Number: 830-95B10; 95B10-OSUT; 830-95B10-OST; 830-95B10OST.

Location: Military Police School, Ft. McClellan, AL; Military Police School, Ft. Gordon, GA.

Length: 7-16 weeks (342-776 hours).

Exhibit Dates: 1/90-7/92.

Objectives: To train the soldier to become disciplined, highly motivated, and capable of performing the duties of an entry-level military policeman to include: law enforcement and nuclear physical security skills.

Instruction: Includes only military law, civil disturbance; interpersonal communications; patrol incidents. May include up to 8 weeks of basic training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in law enforcement technology (11/88).

Related Occupations: 95B.

AR-1728-0026

MILITARY POLICE OFFICER BASIC

(Military Police Officer Orientation)

Course Number: 7 19-20-31.

Location: Military Police School, Ft. McClellan, AL; Provost Marshal General's School, Ft. Gordon, GA.

Length: 15-16 weeks (649-782 hours).

Exhibit Dates: 1/90-6/91

Objectives: To prepare newly commissioned military police corps officers to supervise police operations, traffic, investigations, and administrative units.

Instruction: Course includes leadership, unit operations, law, supervision of tactical police platoon, and personnel management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel leadership and techniques of management and 3 in police operations (12/88); in the upper-division baccalaureate category, 3 semester hours in advanced military science (12/88).

AR-1728-0027

CID CERTIFICATION

(CID Orientation)
(Advanced Investigative Management)
(Criminal Investigation Supervision)

Course Number: 7H-F22/830-F15.

Location: Military Police School, Ft. McClellan, AL.

Length: 2 weeks (73-76 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide officers, warrant officers, and senior NCOs with management skills needed for selected management level positions.

Instruction: Operations and management; evidence; CID reports; administration; records and files; liaison; authority and jurisdiction; evidence; criminal intelligence; crime prevention; surveillance operations; raids; polygraph; protective service; release of information; search and apprehension; notes and sketches; quality control of photos; collection and preservation of evidence; evidence accountability; evidence depository; confessions and admissions; criminal investigations procedures, reports. Emphasizes management techniques through CID case studies approach.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in principles of management (12/88).

Related Occupations: 951A; 951C; 951D; 951E; 951F; 951G.

AR-1728-0028

MILITARY POLICE INVESTIGATOR

(Military Police Investigation)

Course Number: 830-ASIV5; 830-F8.

Location: Military Police School, Ft. McClellan, AL; Military Police School, Ft. Gordon, GA; Military Police School, Vilseck, Germany.

Length: 8 weeks (307 hours).

Exhibit Dates: 1/90-5/90.

Objectives: To qualify selected military policemen for duty as military police investigators.

Instruction: Topics include crime scene processing; testimonial evidence; management of sources of information; investigative planning; evaluating evidence; investigating drug, arson, and child abuse offenses; examination of questioned documents; covert investigations.

Credit Recommendation: In the lower-division baccalaureate/associate degree cate-

gory, 3 semester hours in criminal investigative techniques and 3 in a criminal justice elective (6/88).

Related Occupations: 95B.

AR-1728-0032

POLYGRAPH EXAMINER ADVANCED

Course Number: 7H-F10.

Location: Military Police School, Ft. McClellan, AL.

Length: 3 weeks (110-118 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide polygraph examiners with advanced training for certification or requalification.

Instruction: To provide an update on technique advancements; proper equipment utilization; question and test structure principles; question formulation and chart interpretation; pre-test and post-test procedures; and conduct of advanced practical exercises.

Credit Recommendation: Credit is not recommended because of the refresher nature of the course and because the new material is insufficient to justify additional credit beyond that recommended for Polygraph Examiner Training (11/86).

Related Occupations: 951A; 951C; 951D; 951E; 951F; 951G.

AR-1728-0035

MILITARY POLICE OFFICER ADVANCED
(Military Police Officer Career)

Course Number: 7-19-C22.

Location: Military Police School, Ft. McClellan, AL.

Length: 20 weeks (712 hours).

Exhibit Dates: 1/90–2/91.

Objectives: To prepare military police officers for command of mid-level Army units; to provide refresher training on basic officer skills for managerial-level duty.

Instruction: Military leadership; logistics; chemical and biological operations; administration at battalion level; oral and written communication; military organization, operations and provost marshal functions; planning and conducting military police operations during domestic emergencies; military law; criminal investigation activities, records, and procedures; management, operation, and supervision of confinement facilities; traffic planning and control; methods of handling prisoners of war; command and staff procedures; military police communications; command post and field exercises. Includes the following topics: command and staff responsibilities, law enforcement operations, investigative supervision, computer literacy, and terrorism and security.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision/management, 3 in police operations, and 2 in computer literacy (11/86); in the upper-division baccalaureate category, 3 semester hours in human relations in management, 3 in administrative case study, and additional credit based on institutional evaluation of student case study reports (11/86).

AR-1728-0056

DEPARTMENT OF DEFENSE STRATEGIC DEBRIEFING
(DEPARTMENT OF DEFENSE STRATEGIC
DEBRIEFING AND INTERROGATION
TRAINING)

Course Number: 3A-SI3Q/3C-ASI9N/241-ASIN7; 3A-F37/241-F1.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 4-6 weeks (223-262 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train personnel in strategic briefing and debriefing procedures and advanced interrogation techniques.

Instruction: Instruction in report writing, security procedures, strategic intelligence, and interrogation, including briefing and debriefing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in criminal justice (interviews and interrogations) (4/91).

AR-1728-0063

ADVANCED FRAUD INVESTIGATION

Course Number: 7H-ASI9D/832-ASIU7; 7H-F21/832-ASIU7.

Location: Military Police School, Ft. McClellan, AL.

Length: 4 weeks (152 hours).

Exhibit Dates: 1/90–Present.

Objectives: To qualify accredited Army Criminal Investigation Command special agent warrant officers and enlisted personnel in the investigation of fraud within Army logistics systems.

Instruction: Lectures and practical exercises in interviews and interrogation, sources of information, economic crime investigation, covert operations, use of special investigation funds, evidence processing, investigative accounting, auditing, acquisitions fraud, computer-related crime, computers as investigative aids, presentation of cases to prosecutors, and testifying.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in special topics in criminal justice (4/87).

AR-1728-0064

SPECIAL AMMUNITION SECURITY
(Advanced Security)
(Nuclear Physical Security)

Course Number: 7H-F14/830-F10.

Location: Military Police School, Ft. McClellan, AL.

Length: 2 weeks (74-77 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide training in planning and applying advanced security measures to protect special weapons storage facilities and firing batteries against theft, espionage, sabotage, and other hazards.

Instruction: Lectures and practical exercises in the application of physical security techniques to special weapons facilities and supervising access control, lock and key control, ID operators, utilization of military police dogs, employment of barriers and lighting, evaluation of vulnerabilities, leadership and problem solving, and civil disobedience operations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/89).

AR-1728-0065

CONVENTIONAL SECURITY/CRIME PREVENTION
(Conventional Physical Security)

Course Number: 7H-31D/830-ASIH3.

Location: Military Police School, Ft. McClellan, AL.

Length: 2 weeks (72-74 hours).

Exhibit Dates: 1/90–1/90.

Objectives: To provide enlisted, officer, warrant officer, and civilian personnel with a working knowledge of physical security measures to control pilferage, espionage, sabotage, and other physical security hazards.

Instruction: Lectures and practical exercises in legal aspects of security, physical security planning, protective lighting, ID systems, key control, bomb threat procedures, and security services.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (2/90).

AR-1728-0067

HOSTAGE NEGOTIATIONS

Course Number: 7H-F19/830-F14 (CT); 7H-F19/830-F14.

Location: Military Police School, Ft. McClellan, AL.

Length: 2 weeks (76 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide training in the basic principles and tactics of hostage negotiations for assumption of the role of hostage negotiator.

Instruction: Lectures and practical exercises are presented in managing the hostage situation; topics include negotiations, lessons learned, bargaining techniques, communications, profiling the offender, and the collection of data to resolve such activities.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in special patrol tactics or special topics in law enforcement (11/86).

AR-1728-0068

INSTALLATION PROVOST MARSHAL

Course Number: 7H-F16.

Location: Military Police School, Ft. McClellan, AL.

Length: 2 weeks (72 hours).

Exhibit Dates: 1/90–4/92.

Objectives: To provide newly-appointed installation provost marshals and deputy provost marshals with current doctrine pertaining to military police law enforcement operations, organizational concepts and policies.

Instruction: Lectures in current military police doctrine and procedures relating to management of military police operations, provost marshal responsibilities, traffic management, crime prevention, and budgeting.

Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in a criminal justice seminar (11/86).

AR-1728-0070

MILITARY POLICE PRE-COMMAND

Course Number: 2G-F39.

Location: Military Police School, Ft. McClellan, AL.

Length: 2 weeks (78 hours).

Exhibit Dates: 1/90–7/91.

Objectives: To provide refresher training in training and logistics management, tactical operations, corrections, criminal investigations, and prisoner-of-war doctrine.

Instruction: Instruction in logistics, training management, law, and military police operations.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (11/86).

AR-1728-0071

PROTECTIVE SERVICES TRAINING

Course Number: 7H-F18/830-F13

Location: Military Police School, Ft. McClellan, AL

Length: (116-135, 3 weeks)

Exhibit Dates: 1/90-Present

Objectives: To train personnel in the planning and execution of personnel (dignitary) protection.

Instruction: Includes instruction in methods of motorcade security, advance operations and threat assessment, building and vehicle searches, and emergency medical procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel security (6/90).

AR-1728-0072

SPECIAL REACTION TEAM TRAINING

Course Number: 7H-F17/830-F12

Location: Military Police School, Ft. McClellan, AL

Length: 2-3 weeks (99-139 hours)

Exhibit Dates: 1/90-8/91

Objectives: To provide training in high risk and specialized patrol operations to special reaction teams.

Instruction: Lectures and practical exercises in special reaction response to terrorism activities, hostage situations, and the barricaded offender; the use of special anti-terrorist equipment is included.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in special patrol operations (3/89).

AR-1728-0074

CORRECTIONS ADMINISTRATION

Course Number: 7H-F20

Location: Military Police School, Ft. McClellan, AL

Length: 2 weeks (80 hours)

Exhibit Dates: 1/90-4/92

Objectives: To provide commissioned officers with a working knowledge of the correctional principles, theories, and practices which are required for administering, operating, and supervising Army corrections facilities at posts, camps, or stations.

Instruction: Management, operation, and administration of installation confinement facilities; history of penal treatment; stockade organization; legal considerations of confinement; prisoner accountability; stockade logistics; confessions; report writing, disciplinary measures; prisoner counseling; problem prisoners; sentence computation.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (11/86).

AR-1728-0076

EXPLOSIVE ORDNANCE DISPOSAL SPECIALIST BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 431-55130

Location: Ordnance, Missile and Munitions School, Redstone Arsenal, AL

Length: 6-7 weeks (239-244 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to identify explosive materials and direct disposal activities and be able to deactivate conventional and nonconventional explosive devices.

Instruction: Lectures and field exercises using typical military ordnance in simulated situations. Course contains a core of leadership subjects.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in explosives handling. See AR-1406-0090 for common core credit (10/91).

Related Occupations: 55D.

AR-1728-0077

INSTALLATION SECURITY

Course Number: MP-30

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 1-2 weeks (56 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to apply the principles and characteristics of physical security measures to the protection of an installation, motor pool, vehicles, medical supplies, aircraft, weapons, arms and ammunition, unit mail rooms, automatic data processing equipment, supply storage areas and other locations of a sensitive nature; conduct physical security surveys and inspections; conduct internal and external vulnerability assessment; conduct physical security education and training, and assist in the drafting of a physical security plan for disaster incidents; determine the proper utilization of security devices consisting of perimeter barriers, intrusion detection system, protective lighting, locks and keys, guard force and dogs, and identification and pass control of individuals; identify the characteristics of terrorism, methods of countering terrorism and how to handle a bomb threat.

Instruction: Lectures covering military regulations and field training manuals.

Credit Recommendation: In the vocational certificate category, 1 semester hour in physical security measures or 1 semester hour in crime prevention (10/88).

AR-1728-0078

TRAFFIC ACCIDENT INVESTIGATION

Course Number: MP-23

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 3 weeks (104 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to function as a traffic accident investigator with specific expertise in countries having a Status of Forces Agreement (SOFA) with the United States; prepare written reports reflecting the cause of traffic accidents, the military and civilian laws involved, specific evidence collected and processed; prepare traffic accident (crime scene) sketches and obtain photographs; effect legal detentions, apprehensions, search, seizures, inspections, frisks of suspected individuals;

conduct interviews and interrogations of suspects and witnesses, and obtain written statements, confessions, admissions, dying declarations, and spontaneous exclamation, determine types of traffic enforcement techniques needed in a particular location, know the methods of determining speed violations and the proper procedures for the apprehension/detention of intoxicated drivers.

Instruction: Lectures covering military law, apprehension, search and seizure, confessions, admissions and statement, elements of proof, interview and interrogations, traffic accidents and their causes, planning traffic accident investigation, keeping the accident from getting worse, examination of the vehicle, collection and preservation of evidence, identification of tire skidmarks and scuffs, photographs in traffic accident investigation records and forms, traffic enforcement techniques, intoxicated drivers, and hit and run investigation. Also includes instruction and practical exercises in the use of mathematical formulas in traffic investigations, the use of a traffic accident template, and obtaining measurements at a traffic accident and preparing sketches and diagrams.

Credit Recommendation: In the vocational certificate category, 3 semester hours in traffic accident investigation (10/88); in the lower-division baccalaureate/associate degree category, 3 semester hours in elective credit in motor traffic accident investigation (10/88).

AR-1728-0080

COUNTERINTELLIGENCE AGENT TRANSITION

Course Number: 244-97B20-T

Location: Intelligence School, Ft. Huachuca, AZ

Length: 10-11 weeks (386-393 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to perform counterintelligence operations; conduct counterintelligence investigations including intelligence collection and surveillance planning and conduct; apply legal principles to counterintelligence operations; and conduct counterintelligence interviews.

Instruction: Lectures, simulated field environment exercises and classroom testing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in criminal investigation (investigation and interviews) (6/90).

AR-1728-0081

COUNTERINTELLIGENCE AGENT BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 244-97B30

Location: Intelligence School, Ft. Huachuca, AZ

Length: 8 weeks (271 hours)

Exhibit Dates: 1/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to apply legal principles to counterintelligence operations; conduct counterintelligence investigations of espionage and sabotage activities; and prepare an investigation.

Instruction: Lectures, classroom testing, and practical exercises. Course includes a common core of leadership subjects.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in investigative tech-

niques. See AR-1406-0090 for common core credit (6/90).

AR-1728-0082

COUNTERINTELLIGENCE AGENT

Course Number: 244-97B20.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 19-20 weeks (830 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform counterintelligence operations (conflict analysis); conduct counterintelligence investigations (terrorism, surveillance); conduct security inspections (interviews, planning); and apply legal principles to counterintelligence operations (constitutional law, US codes).

Instruction: Lectures and simulation exercises in counterintelligence operations and investigations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in investigative principles, 1 in legal principles, and 3 in investigative/security practicum (6/90).

AR-1728-0083

INTELLIGENCE ANALYST

Course Number: 243-96B10.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 13-15 weeks (515-587 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to interpret topographical maps; understand threat forces in the world; introduce personnel security systems; process intelligence reports; and compile data to produce information systems.

Instruction: Lectures, classroom testing, and field evaluation exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in principles of information management, and 1 in security of information/personnel (1/92).

AR-1728-0084

INTERROGATOR

Course Number: *Version 1:* 241-96C10; 241-97E10. *Version 2:* 241-96C10; 241-97E10.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: *Version 1:* 9-10 weeks (354 hours). *Version 2:* 9-14 weeks (337-561 hours).

Exhibit Dates: *Version 1:* 1/92–Present. *Version 2:* 1/90–12/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to read maps; coordinate the phases of an interrogation; assess and control the interrogation during questioning; interrogate using an interpreter; and understand basic military terminology. *Version 2:* Upon completion of the course the student will be able to read maps; coordinate the phases of an interrogation; assess and control the interrogation during questioning; interrogate using an interpreter; and understand basic military terminology.

Instruction: *Version 1:* Small class lectures, simulated interrogation in a classroom environment, and field training exercises. *Version 2:* Small class lectures, simulated interrogation in

a classroom environment, and field training exercises.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in map reading and 6 in criminal investigation (interrogation/interviewing) (6/90).

AR-1728-0085

MILITARY INTELLIGENCE OFFICER ADVANCED COUNTERINTELLIGENCE

Course Number: 3-30-C22-35E.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 10 weeks (354 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course the student will conduct investigations and surveillances; interview subjects and suspects; and apply security measures to intelligence operations.

Instruction: Instruction includes lectures and practical exercises in theory and legal principles of investigation, physical security, sabotage and terrorism, surveillance planning and procedures, interviewing, interrogation, personnel security and the planning and conduct of human intelligence operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in criminal investigation and 2 in physical security (6/90).

AR-1728-0086

1. COUNTERINTELLIGENCE AGENT
2. COUNTERINTELLIGENCE ASSISTANT

Course Number: *Version 1:* 244-97B10. *Version 2:* 244-97B10.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: *Version 1:* 17 weeks (652 hours). *Version 2:* 10-11 weeks (377 hours).

Exhibit Dates: *Version 1:* 10/90–Present. *Version 2:* 1/90–9/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform personnel security; identify the objectives of a security program; perform a security manager's inspection; identify and describe automation sensitivity levels and security operating modes; and demonstrate the proper application of legal principles. *Version 2:* Upon completion of the course the student will be able to perform personnel security; identify the objectives of a security program; perform a security manager's inspection; identify and describe automation sensitivity levels and security operating modes; and demonstrate the proper application of legal principles.

Instruction: *Version 1:* Pending evaluation. *Version 2:* Lectures, testing, and field training on the subject matter.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in security techniques and 1 in legal principles (6/90).

Related Occupations: 97B.

AR-1728-0087

MILITARY INTELLIGENCE OFFICER TRANSITION (Tactical All-Source Intelligence Officer Force Alignment Plan 3)

Course Number: *Version 1:* 3A-35D. *Version 2:* 3A-35D.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: *Version 1:* 7 weeks (262 hours). *Version 2:* 8-9 weeks (282-310 hours).

Exhibit Dates: *Version 1:* 6/92–Present. *Version 2:* 1/90–5/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to implement physical security measures; perform information and personnel security procedures; analyze threat forces; define functions of battlefield preparation and tactical intelligence. *Version 2:* Upon completion of the course, the student will be able to implement physical security measures; perform information and personnel security procedures; analyze threat forces; define functions of battlefield preparation and tactical intelligence.

Instruction: *Version 1:* Lectures and field exercises in tactical intelligence operations. *Version 2:* Lectures and field exercises in tactical intelligence operations.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to security (personnel/information) (6/90).

AR-1728-0088

LEGAL SPECIALIST/COURT REPORTER ADVANCED NONCOMMISSIONED OFFICER (NCO)

Course Number: 512-71D/E40.

Location: Adjutant General School, Ft. Benjamin Harrison, IN.

Length: 8-9 weeks (330 hours).

Exhibit Dates: 1/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to prepare wills/power of attorney applying appropriate doctrine in establishing, maintaining, and sustaining legal support; provide necessary skills to manage/supervise a legal office; and manage a legal training program.

Instruction: Lectures and practical exercises in the preparation of wills/power of attorney and practical exercises in training management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in wills, trusts, and probate administration, 3 in law office management, and 1 in leadership (12/91).

Related Occupations: 71D; 71E.

AR-1728-0089

LEGAL SPECIALIST (PHASE 2)

Course Number: 512-71D10-RC.

Location: Adjutant General School, Ft. Benjamin Harrison, IN.

Length: 2 weeks (113 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to research and prepare court martial charge sheet; research and prepare court martial convening order; research and prepare referral to trial; conduct legal research; draft documents; identify and prepare charges; and use word processing equipment and appropriate software.

Instruction: Lectures and practical exercises in word processing, researching documents, and legal writing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in word processing and 4 in legal research and writing (12/91).

Related Occupations: 71D.

AR-1728-0090

MILITARY POLICE OFFICER BASIC

Course Number: 7-19-C20-31

Location: Military Police School, Ft. McClellan, AL.

Length: 15 weeks (628 hours)

Exhibit Dates: 7/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to train and supervise a military police platoon in police operations, traffic investigations, and police administration; maintain the material readiness of the platoon, and lead a military police platoon in the accomplishment of its combat mission.

Instruction: Leadership, management, and supervision of a police unit are main topics. Course also covers introduction to law enforcement; patrol operations; investigations; traffic; crime scene processing; use of force; records; interviewing; terrorism; and military science and military law.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in police supervision and 3 in police operations (6/92); in the upper-division baccalaureate category, 3 semester hours in advanced military science (6/92).

AR-1728-0091

MILITARY POLICE OFFICER ADVANCED

Course Number: 7-19-C22.

Location: Military Police School, Ft. McClellan, AL.

Length: 20 weeks (739 hours).

Exhibit Dates: 3/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to command mid-level Army units; and will be prepared with basic officer skills for managerial-level duties.

Instruction: The course is battle focused and stresses technical, tactical, and leadership skills, military ethics, and military customs. All training is conducted in the five phase leader excellence scenario.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in physical security, and 3 in computer applications (5/92); in the upper-division baccalaureate category, 3 semester hours in operational planning and control, and 2 in case studies in management (5/92).

AR-1728-0092

CRIMINAL INVESTIGATION DIVISION (CID) SENIOR WARRANT OFFICER

Course Number: 7-19-C32.

Location: Military Police School, Ft. McClellan, AL.

Length: 4 weeks (144 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to serve as a criminal investigation division district or field office operations officer or as a senior staff officer.

Instruction: Course topics covered include legal issues, office management, personnel management, resource management, principles of organization, supervision, inspection systems, criminal profiling, managing hostage/terrorist negotiations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision (6/92); in the upper-division baccalaureate category, 3 semester hours in principles of management (6/92).

AR-1728-0093

SPECIAL REACTION TEAM TRAINING PHASE 1 AND
SPECIAL REACTION TRAINING MARKSMAN/
OBSERVER PHASE 2

Course Number: 7H-F17/830-F12.

Location: Military Police School, Ft. McClellan, AL.

Length: Phase 1, 2 weeks (99 hours); Phase 2, 1 week (51 hours).

Exhibit Dates: 8/91–Present.

Learning Outcomes: Upon completion of Phase 1, the student will have learned methods of combating terrorism to include hostage situation management; will have instinctive firearms training; will have learned surveillance/intelligence reporting, incident preplanning, and independent/select firing. Upon completion of Phase 2 (Marksman/Observer), the student will be able to perform those specialized physical and technical tasks needed to serve as a member of a special reaction team.

Instruction: Phase 1 provides lectures, demonstrations, and performance exercises in special reaction team responses to terrorism activities, hostage situations, barricaded subjects, and drug raids. Phase 2 includes shooting positions, examinations, and qualification on special reaction team firearms.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in patrol procedures; credit is to be awarded only upon completion of both phases (6/92).

AR-1728-0094

CONVENTIONAL PHYSICAL SECURITY/CRIME
PREVENTION

Course Number: 7H-31D/830-ASIH3.

Location: Military Police School, Ft. McClellan, AL.

Length: 2 weeks (72 hours).

Exhibit Dates: 2/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to plan and implement physical security/crime prevention measures to control pilferage, espionage, sabotage, and other physical security threats.

Instruction: Lectures, tests, and performance exercises in legal aspects of security, crime prevention, physical security, planning, intrusion detection, crime analysis, and security services.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in crime prevention and control (6/92).

AR-1728-0095

COUNTER DRUG SPECIAL WEAPONS AND TACTICS

Course Number: 7H-F38.

Location: Military Police School, Ft. McClellan, AL.

Length: 1 week (56-57 hours)

Exhibit Dates: 11/91–Present

Learning Outcomes: Upon completion of the course, the student will be able to perform effectively while conducting raids on drug houses, woodland areas, and convoy areas used to conceal and transport narcotics; using special weapons and tactics.

Instruction: Lectures, demonstrations, and performance exercises in special weapons and tactics, raid preplanning, building entry techniques, and explosive identification.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course content (5/92).

AR-1728-0096

COUNTER DRUG FIELD TACTICAL POLICE
OPERATIONS

Course Number: 7H-F36.

Location: Military Police School, Ft. McClellan, AL.

Length: 1 week (48 hours).

Exhibit Dates: 11/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform using the techniques and methods of planning field tactics operations.

Instruction: Lectures, demonstrations, and performance exercises in criminal/tactical intelligence; drug identification; risk management; map reading; land navigation; raid planning, and practical exercises.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/92).

AR-1728-0097

CRIMINAL INVESTIGATION DIVISION (CID)
WARRANT OFFICER TECHNICAL AND
TACTICAL CERTIFICATION

Course Number: 7H-311A.

Location: Military Police School, Ft. McClellan, AL.

Length: 5-6 weeks (186 hours).

Exhibit Dates: 12/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform as a team chief and special agent in charge of smaller criminal investigation division field elements.

Instruction: Lectures, demonstration, and performance exercises in leadership, situation training exercises, and tactical skills in the field.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in police supervision (6/92).

AR-1728-0098

CRIMINAL INVESTIGATION DIVISION (CID)
WARRANT OFFICER TECHNICAL AND
TACTICAL CERTIFICATION RESERVE PHASE
2

Course Number: Phase 2, 7H-311A-RC.

Location: Military Police School, Ft. McClellan, AL.

Length: 2 weeks (72 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise

and manage investigative systems, programs, and operations.

Instruction: Lectures and performance exercises in management of a major crime, management of criminal intelligence operations, and supervision of a criminal investigation division source program.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the content (6/92).

AR-1728-0100

MILITARY POLICE ADVANCED NONCOMMISSIONED OFFICER (NCO)

Course Number: 8-95-C42.

Location: Military Police School, Ft. McClellan, AL.

Length: 11-12 weeks (485-519 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the technical duties of platoon sergeant, operations sergeant, confinement supervisor, or chief of investigative support, depending on the military occupational specialty in which the student concentrates. The course will enhance leadership competencies as related to combat service support.

Instruction: Lectures and applied exercises in leadership, police equipment, police tactics, battlefield control, military police operations, and advanced noncommissioned officer duties. Separate tracks beyond the common core provide specific concentration in law enforcement operations (95B); corrections/confinement (95C); or criminal investigation (95D).

Credit Recommendation: In the lower-division baccalaureate/associate degree category, for those in the 95B track, 2 semester hours in law enforcement operations; for those in the 95C track, 3 semester hours in correctional supervision; for those in the 95D track, 3 semester hours in administration (6/92).

Related Occupations: 95B; 95C; 95D.

AR-1728-0101

MILITARY POLICE INVESTIGATOR

Course Number: 830-ASIV5.

Location: Military Police School, Ft. McClellan, AL; Military Police School, Vilseck, Germany.

Length: 8 weeks (316 hours).

Exhibit Dates: 6/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform duties as a public investigator in the fields of criminal investigation, confession and admission, fingerprint evidence, forensic science, crime scene processing and processing of questioned documents.

Instruction: Lectures, demonstrations, and performance exercises in law, forensic evidence, testimonial evidence, crime scene processing, investigation crimes, and special operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in criminal investigation and 3 in crime scene processing (6/92).

AR-1728-0102

MILITARY POLICE BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 830-95B/C/D30.

Location: Military Police School, Ft. McClellan, AL.

Length: 8-9 weeks (347-352 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to serve as a team leader or squad leader in support of combat services.

Instruction: Lectures and practical applications in combat support, tactics, police missions, equipment systems, leadership, weapons, and security.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in law enforcement operations and 1 in personnel supervision (5/92).

Related Occupations: 95B; 95C; 95D.

AR-1728-0103

CORRECTIONS NONCOMMISSIONED OFFICER (NCO)

Course Number: 830-95C20.

Location: Military Police School, Ft. McClellan, AL.

Length: 4 weeks (144-145 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will understand the legal aspects of confinement, physical control of prisoners, and the administration of correctional services.

Instruction: Lectures, demonstrations, and performance exercises in corrections, corrections administration, prisoner supervision, interpersonal communications with offenders, records management, and contemporary issues in corrections.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in correctional administration/correctional elective (5/92).

AR-1728-0104

APPRENTICE CRIMINAL INVESTIGATION DIVISION (CID) SPECIAL AGENT

Course Number: 832-95D20/30.

Location: Military Police School, Ft. McClellan, AL.

Length: 15 weeks (575 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to conduct criminal investigation; process crime scenes; collect and preserve physical evidence; write investigative reports; conduct covert operations; and plan and conduct raids.

Instruction: Lectures, demonstrations, and practical exercises in criminal law; fundamentals of criminal investigation; crime scene processing; crimes against persons and property; physical evidence; drug investigations; fraud and fraud investigations; reports; covert operations; raids; surveillance; interviews and interrogations; and protective services.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in criminal investigation, 3 in criminalistics, and 3 in interview and interrogation (6/92).

Related Occupations: 95D.

AR-1728-0105

APPRENTICE CRIMINAL INVESTIGATION DIVISION (CID) SPECIAL AGENT RESERVE COMPONENT PHASE 2 RESIDENT

Course Number: 832-95D20/30-RC (Phase 2).

Location: Military Police School, Ft. McClellan, AL.

Length: 2 weeks (84 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to process crime scenes; collect and preserve physical evidence; and conduct crime preventive services.

Instruction: Lectures and practical exercises covering crime scene processing, physical evidence, and fraud and waste.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in evidence and criminal procedures (6/92).

Related Occupations: 95D.

AR-1728-0106

APPRENTICE CRIMINAL INVESTIGATION DIVISION (CID) SPECIAL AGENT RESERVE COMPONENT PHASE 4 RESIDENT

Course Number: 832-95D20/30 (T)-RC (Phase 4).

Location: Military Police School, Ft. McClellan, AL.

Length: 2 weeks (87 hours).

Exhibit Dates: 1/90–Present.

Objectives: Upon completion of the course, the student will be able to conduct specialized criminal investigation; participate in protective services operations; write investigative reports; and conduct interviews and interrogations.

Instruction: Lectures and practical exercises in special investigative techniques; in protective service operations; in interviewing and interrogations; and in investigative reports.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in criminal investigation (6/92).

Related Occupations: 95D.

AR-1728-0107

BASIC MILITARY POLICE/BASIC CORRECTION SPECIALIST PHASES 1-4, PHASE 5 (95B) AND PHASE 5 (95C)

Course Number: 830-95B10/95C10; 830-95B10; 830-95C10.

Location: Military Police School, Ft. McClellan, AL.

Length: Phases 1-4, 11 weeks (458-459 hours); Phase 5 (95B), 5 weeks (180-181 hours); Phase 5 (95C), 5 weeks (204 hours).

Exhibit Dates: 8/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to demonstrate discipline, motivation, physical readiness, and military skills for combat survivability. Phases 1-4 include basic training; students then branch into specific tracks. Those in track 95B will function as a military police specialist. Those completing track 95C will function as a corrections specialist.

Instruction: Lectures and practical exercises including first aid, physical education, physical security, military knowledge and skills and field training. Student will complete this course, then go to career-specific training in either military police or corrections specialists fields. Those in the basic military police track, 95B. Will be exposed to lectures and practical exercises providing instruction in human behavior; criminal law; crime scene processing;

patrol procedures; interviewing; and report writing. Those in the corrections specialist track, 95C, will have classroom discussions and lectures in introduction to corrections and administration of facilities; prisoner administration and services; customs and control; investigations; human behavior; and practical exercises with a mock confinement facility.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in human behavior, 1 in basic criminal law, 1 in crime scene processing, and 1 in patrol procedures. For Phase 5, 95C track, in the lower-division baccalaureate/associate degree category, 3 semester hours in corrections procedures, 3 in corrections supervision, and 2 in principles of investigation (6/92).

Related Occupations: 95B; 95C.

AR-1728-0111

FIRE PROTECTION TECHNOLOGY

Course Number: C3AZR57170 001.

Location: Training Center, Chanute AFB, IL.

Length: 2 weeks (72 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to establish command and control of fire situations; develop tactics and strategy for fire operations; employ, at the scene of a hazardous materials incident, the proper tactics; combat an aircraft/flightline incident; develop a contingency plan for specific types of operations; develop a prefire plan for a structural fire situation; and employ tactics and strategy to maintain command and control of various fire situations.

Instruction: Informal lectures, practical exercises, and demonstrations in fireground operations to include: command and control, tactics and strategy, hazardous materials, aircraft fire suppression, contingency operations, structural fire suppression, and fireground operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in fire fighting command (1/93).

AR-1728-0112

FIRE PROTECTION MANAGEMENT PRINCIPLES (ARMY 51M20/30)

Course Number: C3AZR57170 009.

Location: Training Center, Chanute AFB, IL.

Length: 3 weeks (120 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform duties of assistant chief, station chief, fire team chief within a fire department; student will have skills in personnel qualifications, fire protection program staffing requirements, training, communications, records, mobilization, and maintenance functions and have basic knowledge of fire investigations, occupational safety, rescue concepts, and firefighting principles.

Instruction: Lectures, demonstrations, and practical exercises on the above topics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of fire service management (1/93).

AR-1728-0113

APPRENTICE FIRE PROTECTION SPECIALIST (ARMY 51M10)

Course Number: C3ABR57130 002

Location: Training Center, Chanute AFB, IL.

Length: 7 weeks (282 hours)

Exhibit Dates: 1/90–Present

Learning Outcomes: Upon completion of the course, the student will be able to identify causes and control of various combustible materials, assess and control small and large aircraft fires and crash fires; assess and control structural fires; and administer emergency first aid.

Instruction: Lectures, discussions, and practical exercises teach students control and suppression of aircraft and structural fires. Includes emergency first aid.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in emergency first aid, 3 in aircraft fire suppression, and 3 in structural fire suppression (1/93).

AR-1728-0114

JUDGE ADVOCATE GENERAL OFFICER BASIC PHASE I

Course Number: 5-27-C20.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 2 weeks (55 hours).

Exhibit Dates: 10/92–Present.

Learning Outcomes: Upon completion of the course, the student will have a basic familiarity with the Army environment including uniform and dress, courtesy, inspection, drill, fitness, map reading, first aid, rifle training and code of conduct.

Instruction: Lectures and practical exercises in military leadership and management, law enforcement, and tactical operations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (5/96).

AR-1728-0115

FIREARMS AND TOOLMARKS EXAMINER

Course Number: None.

Location: Army Criminal Investigations Laboratory, Ft. Gillem, GA.

Length: 104 weeks (3422 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will possess the credentials, background, and training to be qualified as an expert witness in firearms identifications, toolmarks comparisons, and serial number restorations before federal, state, municipal, and military courts including grand juries and hearings within the criminal justice system. The student will fully understand and knowledgeably examine firearms as to function; compare bullets and other projectiles and shell cases for class and individual characteristics, and give expert witness as to match or non-match between questioned and known items; will be familiar with Association of Firearms and Toolmarks Examiners (AFTE) consensus firearms and toolmarks terminology; will write expert reports giving results of examination; testify as expert witness in court on all aspects of firearms and toolmarks identifications and comparison; will have complete familiarity with

firearms and ammunition manufacturing and function; will conduct restorations of obliterated serial numbers on metal surfaces; and will be able to conduct appropriate tests to estimate muzzle-to-target distances in shooting cases.

Instruction: Topics of instruction include the history of firearms identification; firearm development; cartridge development; handling of evidence; test firing and specimen recovery; laboratory instrumentation; principles of comparative evidence; distance determination; serial number restoration; report writing and court preparation; and advanced criminal investigation including chemical, photographic, and physical examinations. Course is presented through a combination of lectures, directed readings, practical exercises, comprehensive examinations throughout the course of study, academic research, supervised work on actual criminal cases, and independent project work. The special project/independent study consists of an independent, original investigation of a problem or method, under supervision of a qualified examiner. Data resulting from these projects may be presented at appropriate professional meetings research project may be result in publication in peer-review forensic sciences journal. Internship experience provides an opportunity for practice on real world casework exhibits, under supervision of a qualified examiner. Proficiency testing constitutes part of this practical training.

Credit Recommendation: In the vocational certificate category, 30 semester hours in firearms and toolmarks examination (6/94); in the lower-division baccalaureate/associate degree category, 9 semester hours in basic firearms/toolmarks examination (6/94); in the upper-division baccalaureate category, 9 semester hours in advanced firearms/toolmarks examination, 3 in crime scene or pattern evidence, 3 in expert witness testimony, 9 in internship or practicum in firearms/toolmarks examination, and 3 in special project/independent study (6/94); in the graduate degree category, 3 semester hours in specialized firearms/toolmarks examination and 0-6 in based on the receiving institution's review of the student's research work (6/94).

AR-1728-0116

QUESTIONED DOCUMENTS EXAMINATION

Course Number: None.

Location: Army Criminal Investigations Laboratory, Ft. Gillem, GA.

Length: 104 weeks (3280 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will possess the credentials, background, and training to be qualified as an expert witness in questioned documents examination before federal, state, municipal, and military courts, including grand juries and hearings within the criminal justice system. Students will be capable of performing forensic examination of documentary evidence with emphasis on solving various questioned documents problems both conceptually and through interpretation and analysis via professional papers and instrumentation.

Instruction: Course is presented through a combination of lectures, directed readings, practical exercises, comprehensive examinations throughout the course of study, academic research, supervised work on actual criminal cases, and independent project work. The spe-

cial project/independent study consists of an independent, original investigation of a problem or method, under supervision of a qualified examiner. Data resulting from these projects may be presented at appropriate professional meetings. Research project may be result in publication in peer-review forensic science journal. Internship experience provides an opportunity for practice on real world casework exhibits, under supervision of a qualified examiner. Proficiency testing constitutes part of this practical training. Topics include the examination of paper, ink, typewriters, printout devices, and writing instruments. Also covered is presenting expert testimony; internship; counterfeiting; commercial printing; and document photography.

Credit Recommendation: In the vocational certificate category, 30 semester hours (certificate) in questioned documents examination (6/94); in the lower-division baccalaureate/associate degree category, 6 semester hours in questioned documents and 6 in typewriters and printout devices (photocopiers, FAX machines, and printers) (6/94); in the upper-division baccalaureate category, 3 semester hours in expert witness testimony, 9 in internship or practicum in questioned documents examination, 3 in special project/independent study, and 9 in advanced questioned documents examination (6/94); in the graduate degree category, 3 semester hours in a specialized questioned documents examination and 0-6 based on the receiving institution's review of the student's research work (6/94).

AR-1728-0117

LATENT PRINT EXAMINER

Course Number: None.

Location: Army Criminal Investigations Laboratory, Ft. Gillem, GA.

Length: 104 weeks (4160 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will possess the credentials, background, and training to be qualified as an expert witness in questioned documents examination before federal, state, municipal, and military courts including grand juries and hearings within the criminal justice system. The student will understand the principles of preservation and packaging of physical evidence; will be able to classify fingerprints, and develop and enhance latent fingerprints and other friction ridge impressions using physical, chemical, and instrumental techniques; evaluate latent fingerprints and other friction ridge impressions as to value for identification; compare fingerprints and other friction ridge impressions and provide expert opinion of results of comparison; input data to and extract information from Automated Fingerprint Identification System (AFIS); knowledgeably describe the history and development of, and basis for fingerprint classification, fingerprint comparisons, and methods for development of latent friction ridge skin impression; provide written reports and testify as expert witness in court on fingerprint and other friction ridge skin impression comparisons; develop prints on various surfaces using appropriate techniques; use laser and/or alternate light sources to enhance prints; provide crime scene support for latent prints; and will be familiar with other types of prints, such as footwear, lip, ear, palm, tire, and fabrics.

Instruction: Course is presented through a combination of lectures, directed readings, practical exercises, comprehensive examinations throughout the course of study, academic research, supervised work on actual criminal cases, and independent project work. The special project/independent study consists of an independent, original investigation of a problem or method, under supervision of a qualified examiner. Data resulting from these projects may be presented at appropriate professional meetings. Research project may be result in publication in peer-review forensic sciences journal. Internship experience provides an opportunity for practice on real world casework exhibits, under supervision of a qualified examiner. Proficiency testing constitutes part of this practical training. There is a requirement to complete various courses external to this school. Topics include history of latent prints; friction ridge biology and physiology; fingerprint pattern recognition and classification; preservation of evidence; latent print development on various surfaces using both chemical and lighting techniques; identification and development of other pattern evidence such as tire, footwear, palm, lip, ear, and fabric impressions; and legal aspects of prints to include moot court experience.

Credit Recommendation: In the vocational certificate category, 30 semester hours (certificate) in fingerprint identification (6/94); in the lower-division baccalaureate/associate degree category, 9 semester hours in basic fingerprints (6/94); in the upper-division baccalaureate category, 9 semester hours in advanced fingerprints, 3 in crime scene/pattern evidence, 3 in expert witness testimony, 9 in internship or practicum in fingerprints examination, and 3 in special project/independent study (6/94); in the graduate degree category, 3 semester hours in specialized fingerprints examination and 0-6 based on the receiving institution's review of the student's research work (6/94).

AR-1728-0118

FORENSIC PHOTOGRAPHY

Course Number: None.

Location: Army Criminal Investigations Laboratory, Ft. Gillem, GA.

Length: 104 weeks (4160 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will possess the credentials, background, and training to be qualified as an expert witness in questioned documents examination before federal, state, municipal, and military courts including grand juries and hearings within the criminal justice system. The student will be able to produce negatives and prints using black and white or color; set up and photograph evidence such as latent prints, palm prints, footwear, and basic impressions; provide photographic support for all laboratory divisions; provide crime scene photography as required for any investigation; use correct and appropriate close-up macrophotography and microphotography; use videotaping and image enhancement techniques; understand legal issues for forensic photography; and understand the production of visual and training aids using color and black and white photography.

Instruction: Course is presented through a combination of lectures, directed readings, practical exercises, comprehensive examinations throughout the course of study, academic

research, supervised work on actual criminal cases, and independent project work. The special project/independent study consists of an independent, original investigation of a problem or method, under supervision of a qualified examiner. Data resulting from these projects may be presented at appropriate professional meetings. Research project may be result in publication in peer-review forensic sciences journal. Internship experience provides an opportunity for practice on real world casework exhibits, under supervision of a qualified examiner. Proficiency testing constitutes part of this practical training. Topics include principles of photography; evidence photography; photographic optics; principles of light and its management; principles of the camera and its operation; photographic theory; photographic densitometry; photographic chemistry; color photography; infrared and ultraviolet photography; photomicrography; photomacrography; photographic techniques in support of all division laboratory divisions; and investigative activities.

Credit Recommendation: In the vocational certificate category, 30 semester hours (certificate) in photography (forensic) (6/94); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic photography, 6 in forensic evidence photography, and 3 in color photography (6/94); in the upper-division baccalaureate category, 6 semester hours in specialized photographic techniques (micro/macro), 6 in advanced photography, 3 in expert witness testimony, 9 in internship or practicum in photography, and 3 in special project/independent study (6/94); in the graduate degree category, 3 semester hours in specialized forensic or evidence photography, 0-6 based on the receiving institution's review of the student's research work (6/94).

AR-1728-0120

BASIC MILITARY POLICE, PHASE 4-5 (ITRO/USMC)

Course Number: 830-95B10.

Location: Military Police School, Ft. McClellan, AL.

Length: 9 weeks (356 hours).

Exhibit Dates: 1/93–Present.

Learning Outcomes: Upon completion of the course, the student will be able to demonstrate competency in basic police procedures and law enforcement skills.

Instruction: The student will be exposed to lectures, demonstrations, and practical exercises providing instruction in military law apprehension and arrest techniques, accident investigation, patrol procedures, report writing, and case preparation and presentation. Course is conducted for marine corps personnel.

Credit Recommendation: In the vocational certificate category, 3 semester hours in apprehension and arrest techniques and 2 in accident investigation (3/96); in the lower-division baccalaureate/associate degree category, 3 semester hours in military/criminal law and procedures and 2 in patrol operations (3/96).

AR-1729-0004

HOSPITAL FOOD SERVICE SPECIALIST

Course Number: 800-94F10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 7 weeks (310 hours).

Exhibit Dates: 1/94-9/94

Learning Outcomes: After 9/94 see AR 1729-0050. To train personnel to perform food preparation and distribution activities and apply diet therapy principles to the preparation of modified food required in patient meal service.

Instruction: Conferences, self-paced examinations and practical exercises in diet preparation, clinical dietetics operations and hospital food service operations.

Credit Recommendation: In the vocational certificate category, 2 semester hours in hospital food service and 3 in modified diet preparation (7/88); in the lower-division baccalaureate/associate degree category, 3 semester hours in nutritional care (7/88).

Related Occupations: 94F

AR-1729-0021

ADVANCED FOOD MANAGEMENT

Course Number: 8-10-C22-82A.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 8 weeks (280 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train military and civilian personnel for a staff assignment requiring food service management skills.

Instruction: Topics include basic receiving and storeroom operations, food sanitation, food products and technology, and various aspects of food service management. Classroom instruction is complemented by visits to various food service operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 7 semester hours in food service management (8/85).

AR-1729-0028

VETERINARY SERVICE IN THEATER OF OPERATIONS

Course Number: 6G-F2/321-F2.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 3 weeks (126 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify problem areas relating to situations affecting food inspection, and make recommendations for resolution; supervise and train personnel in the various aspects of food inspection with emphasis on optimum performance standards and sanitary conditions.

Instruction: Review of anatomy, physiology, and pathological conditions related to various animals in their normal and/or abnormal status, emphasizing the significance of any deviation as pertains to the food inspection program. Discussion of content, with practical application for procurement, surveillance inspection of various dairy products, meats, fresh fruits, and vegetables.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in administration and 2 in food technology (11/89).

AR-1729-0029

COMMISSARY MANAGEMENT

Course Number: 8G-82D/551-ASIU5.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 6 weeks (218 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage a retail supply and food market facility.

Instruction: Includes classroom and practical exercises in principles of supervision, recordkeeping, basic accounting, facility design and layout, merchandising and promotional techniques, security issues, food storage and display, sanitation, warehousing techniques, and inventory control.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of supervision, 2 in food sanitation, and 1 in retail management or 2 semester hours in food sanitation and 3 in retail management of which 2 are specifically in principles of supervision (10/88).

AR-1729-0030

FIELD BREAD BAKING OPERATIONS

Course Number: 800-ASID1.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 2 weeks (72 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage and operate the mobile field baking plant.

Instruction: Includes lectures and performance exercises in principles and procedures applicable to mobile bread baking.

Credit Recommendation: In the vocational certificate category, 3 semester hours in bread baking (10/88).

Related Occupations: 94B.

AR-1729-0031

SUBSISTENCE OFFICER

Course Number: Version 1: 8E-F4. Version 2: 8E-F4.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: Version 1: 6 weeks (211-216 hours). Version 2: 6 weeks (211-216 hours).

Exhibit Dates: Version 1: 10/93–Present. Version 2: 1/90–9/93.

Learning Outcomes: Version 1: Upon completion of the course, the student will be able to manage a food supply operation, supervise food service sanitation and operations, and oversee dining facility contracts. Version 2: Upon completion of the course, the student will be able to manage a food supply operation, exercise technical supervision over food service activities, and perform the contracting out of dining facility operations.

Instruction: Version 1: Lectures, small group instruction, field trips, and practical exercises on food service supply management, food service operations, contracting out of dining facility operations, and commercial and government department food preparation and food procurement operations. Version 2: Lectures, small group instruction, field trips, and practical exercises on food service supply management, food service operations, contracting out of dining facility operations, and commercial and government department food preparation and food procurement operations.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in food service sanitation (2/93); in the upper-division baccalaureate category, 4 semester hours in food service

management (2/93). Version 2: In the upper-division baccalaureate category, 6 semester hours in food service management (10/89).

Related Occupations: 92G.

AR-1729-0032

FOOD SERVICE MANAGEMENT

Course Number: Version 1: 8E-92G/8E-922A/F8. Version 2: 8E-92G/8E-922A/800-F8; 8E-82G/8E-041A/800-F8.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: Version 1: 4 weeks (144 hours). Version 2: 3 weeks (108 hours).

Exhibit Dates: Version 1: 1/96–Present. Version 2: 1/90-12/95.

Learning Outcomes: Version 1: This version is pending evaluation. Upon completion of the course, students will be able to apply the principles, procedures, and accept the responsibilities related to food service management. Version 2: Upon completion of the course, students will be able to apply the principles, procedures, and accept the responsibilities related to food service management.

Instruction: Version 1: This version is pending evaluation. This course is conducted through demonstrations, lectures and performance exercises. Major topics covered in the course include recordkeeping, administrative procedures, and the basics of food preparation, sanitation, nutrition and evaluation of foods, and selected computer applications. Version 2: This course is conducted through demonstrations, lectures and performance exercises. Major topics covered in the course include recordkeeping, administrative procedures, and the basics of food preparation, sanitation, nutrition and evaluation of foods, and selected computer applications.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in food service management (2/93).

Related Occupations: 041A; 82C; 92G.

AR-1729-0034

1. FOOD SERVICE TECHNICIAN WARRANT OFFICER BASIC
2. FOOD SERVICE TECHNICIAN WARRANT OFFICER TECHNICAL/TACTICAL CERTIFICATION
3. FOOD SERVICE TECHNICIAN WARRANT OFFICER TECHNICAL/TACTICAL CERTIFICATION

Course Number: Version 1: 8E-922A. Version 2: 8E-922A. Version 3: 8E-922A.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: Version 1: 9 weeks (369-370 hours). Version 2: 8-9 weeks (313 hours). Version 3: 9 weeks (330 hours).

Exhibit Dates: Version 1: 12/95–Present. Version 2: 10/92–11/95. Version 3: 1/90–9/92.

Learning Outcomes: Version 1: This version is pending evaluation. Upon completion of the course, the student will be able to manage food service facilities and contracts in accordance with nutrition and sanitation standards. Emphasis is placed on proper preparation and presentation of foods, recordkeeping and food service management. Version 2: Upon completion of the course, the student will be able to manage food service facilities and contracts in accordance with nutrition and sanitation standards. Emphasis is placed on proper preparation

and presentation of foods, recordkeeping and food service management. *Version 3:* Upon completion of the course, the student will be able to supervise food service operations utilizing and applying a knowledge of sanitation and nutrition.

Instruction: *Version 1:* This version is pending evaluation. Lectures, practical exercises, and demonstration in nutrition, food preparation and presentation, recordkeeping, sanitation, and supervision of a food service operation. *Version 2:* Lectures, practical exercises, and demonstration in nutrition, food preparation and presentation, recordkeeping, sanitation, and supervision of a food service operation. *Version 3:* Lecture, practical exercises, and demonstrations in the topics of management theory, effective writing, nutrition, sanitation, and supervision of food service operations.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in food service sanitation, 2 in basic nutrition, and 2 in food service management (2/93). *Version 3:* In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of management, 2 in principles of nutrition, 2 in food service supervision, and 1 in food service sanitation (10/88).

AR-1729-0036

FOOD SERVICE TECHNICIAN SENIOR WARRANT OFFICER, RESERVE

Course Number: 8-10-C32-922A-RC.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 2 weeks (84 hours).

Exhibit Dates: 1/90-10/93.

Learning Outcomes: Upon completion of the course, the student will be able to plan and organize food service technical functions for field operations.

Instruction: Lectures, seminars, demonstration, and practical exercises in field food service operations, menu planning, and field bakery operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in food service management (10/88).

AR-1729-0037

FOOD SERVICE TECHNICIAN WARRANT OFFICER
TECHNICAL/TACTICAL CERTIFICATION
RESERVE COMPONENT

Course Number: 8E-922A-RC.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 2 weeks (76 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the organizational management functions of a food advisor and will have the ability to plan, coordinate, and direct sanitation and food service mobile operations.

Instruction: Includes lectures and performance exercises in sanitation and mobile operations of a food service function as well as management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in food service management (10/88).

Related Occupations: 922A.

AR-1729-0039

FOOD SERVICE SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 92G30. *Version 2:* 800-94B30. *Version 3:* 800-94B30.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 10 weeks (364-365 hours). *Version 2:* 11 weeks (400 hours). *Version 3:* 8 weeks (297 hours).

Exhibit Dates: *Version 1:* 10/95-Present. *Version 2:* 10/92-9/95. *Version 3:* 1/90-9/92.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to properly prepare and serve food in accordance with quality assurance and basic nutrition guidelines in a safe and sanitary environment. Other topics include facility and equipment maintenance, security, basic computer applications, and recordkeeping. *Version 2:* Upon completion of the course, the student will be able to properly prepare and serve food in accordance with quality assurance and basic nutrition guidelines in a safe and sanitary environment. Other topics include facility and equipment maintenance, security, basic computer applications, and recordkeeping. *Version 3:* Upon completion of the course, the student will be able to use correct preparation and serving procedure in cafeteria/dining operations, utilize industry acceptable sanitation and hygiene practices, and supervise personnel in the food production and service areas.

Instruction: *Version 1:* This version is pending evaluation. Conference, small group instruction and practical exercises are utilized to cover the topical areas of the course which include: nutrition, food preparation and serving techniques, food service sanitation, equipment maintenance, and food service management. *Version 2:* Conference, small group instruction and practical exercises are utilized to cover the topical areas of the course which include: nutrition, food preparation and serving techniques, food service sanitation, equipment maintenance, and food service management. *Version 3:* Topics include meat processing, sanitation, food preparation, dining facility management, and field kitchen operations.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in food service management and 1 in food service sanitation. See AR-1406-0090 for common core credit (2/93). *Version 3:* In the lower-division baccalaureate/associate degree category, 1 semester hour in sanitation and 2 in dining facility management. See AR-1406-0090 for common core credit (12/88).

Related Occupations: 94B; 94B.

AR-1729-0040

FOOD SERVICE SPECIALIST ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 800-92G40. *Version 2:* 800-94B40. *Version 3:* 800-94B40.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 10 weeks (363 hours). *Version 2:* 11-12 weeks (416 hours). *Version 3:* 10 weeks (362 hours).

Exhibit Dates: *Version 1:* 10/95-Present. *Version 2:* 10/92-9/95. *Version 3:* 1/90-9/92.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to supervise the preparation and service of foods in accordance with nutritional and sanitary standards. Emphasis is given to facility management, contract administration, security, equipment replacement, record recordkeeping and computer applications. *Version 2:* Upon completion of the course, the student will be able to supervise the preparation and service of foods in accordance with nutritional and sanitary standards. Emphasis is given to facility management, contract administration, security, equipment replacement, record recordkeeping and computer applications. *Version 3:* Upon completion of the course, the student will be able to apply sanitation practices in stationary and mobile (field) settings, understand and apply general management theory, human resource development, and solve logistical problems relative to food service/dining/field facilities. Student will be able to evaluate contract food service operations, and apply nutritional concepts in food preparation and service.

Instruction: *Version 1:* This version is pending evaluation. Conference and small group instruction present course content in the areas of nutrition, sanitation, facility management, equipment replacement, contract administration, security, recordkeeping, and computer applications. *Version 2:* Conference and small group instruction present course content in the areas of nutrition, sanitation, facility management, equipment replacement, contract administration, security, recordkeeping, and computer applications. *Version 3:* Conference instruction and guest speakers present course content, including sanitation practices, management principles and procedures, dining facility accounting, dining security procedures, staffing, and strategic planning relative to dining facility equipment replacement.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in food service sanitation, 1 in basic nutrition, and 3 in food service management. See AR-1404-0035 for common core credit (2/93). *Version 3:* In the lower-division baccalaureate/associate degree category, 2 semester hours in dining facility management, 2 in human resource management, and 3 in basic nutrition. See AR-1404-0035 for common core credit (10/88).

Related Occupations: 92G; 94B.

AR-1729-0041

FOOD SERVICE SPECIALIST ADVANCED INDIVIDUAL
TRAINING

Course Number: *Version 1:* 800-92G10. *Version 2:* 800-94B10.

Location: *Version 1:* Quartermaster Center and School, Ft. Lee, VA. *Version 2:* Quartermaster Center and School, Ft. Lee, VA; Training Center, Ft. Dix, NJ; Training Center, Ft. Jackson, SC.

Length: *Version 1:* 8 weeks (320 hours). *Version 2:* 9 weeks (324 hours).

Exhibit Dates: *Version 1:* 10/95-Present. *Version 2:* 1/90-9/95.

Learning Outcomes: *Version 1:* This version is pending evaluation. There is service specific training involved. Upon completion of the

course, the student will be able to use standard food service terminology, and prepare and serve food in dining, kitchen, and field settings. Students will also maintain sanitation standards and food preparation equipment. *Version 2:* Upon completion of the course, the student will be able to use standard food service terminology, and prepare and serve food in dining, kitchen, and field settings. Students will also maintain sanitation standards and food preparation equipment.

Instruction: *Version 1:* This version is pending evaluation. There is service specific training in the course. Instruction includes small-large quantity cooking and baking and meat cutting; basic food theory; care and operation of equipment under field conditions, duties and responsibilities of food service personnel. *Version 2:* Instruction includes small-large quantity cooking and baking and meat cutting; basic food theory; care and operation of equipment under field conditions, duties and responsibilities of food service personnel.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in food preparation small quantity and 2 in institutional cooking large quantity (8/90).

Related Occupations: 92G; 94B.

AR-1729-0042

DINING FACILITY MANAGEMENT

Course Number: LOG 75.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 3 weeks (107 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage and operate a military dining facility; establish dining facility files; prepare and maintain dining facility forms, such as cash collection sheets, production schedules, subsistence forms, ration requests, master menus, and food preparation charts; supervise food sanitation policies; identify operational requirements, responsibilities, and procedures; recommend equipment replacement.

Instruction: Conference classes, practical exercises, and videotapes, designed to upgrade technical skills required for management of a dining facility. Topics include policies of sanitation, records and reports, establishment of files, managing personnel, menu development, and the receipt and storage of rations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in food service management (10/88).

AR-1729-0043

HOSPITAL FOOD SERVICE MANAGEMENT

Course Number: 800-F3.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 3 weeks (103 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will understand fundamentals of nutrition management in clinical dietetic nutrition care, understand principles of food service management, including kitchen layout, design and equipment, understand fundamentals of oral and written communication

skills, and understand principles of motivation and ethical decision making.

Instruction: Conferences and practical exercises in clinical dietetic nutrition, food service management, and communications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to nutritional care/commercial dietetics, 2 in fundamentals of food service management/institutional management, and 1 in written and/or oral communication (3/90).

AR-1729-0044

HOSPITAL FOOD SERVICE SPECIALIST (BASIC) RESERVE COMPONENT

Course Number: 800-91M10-RC; 800-94F10-RC.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (141-160 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will understand fundamentals of nutrition care, including taking a dietary history, patient menu evaluation and recommendations and also understand introduction to food service management practice.

Instruction: Phase 2, the resident portion of the course, consists of conferences and practical exercises in clinical dietetics, including preparation of specialized diets and quantity food preparation, including food service in nonfixed facilities.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in clinical dietetics (Phase 2), and 1 in practice of clinical dietetics (Phase 3) (4/94).

Related Occupations: 91M.

AR-1729-0045

FOOD AND BEVERAGE MANAGEMENT

Course Number: 800-F15.

Location: Soldier Support Center, Ft. Benjamin Harrison, IN.

Length: 3 weeks (137 hours).

Exhibit Dates: 2/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to apply proper sanitation procedures, food presentation skills; establish and maintain beverage controls; receive store and issue food items; grill, fry, and broil food; and prepare salads and basic sauces.

Instruction: Lectures, demonstrations, practicum, and evaluation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic food preparation and 1 in safety and sanitation (12/91).

AR-1729-0046

FOOD SERVICE SPECIALIST RESERVE

Course Number: 101-94B10-RC.

Location: Reserve Training Centers, Continental U.S.

Length: 2 weeks (96 hours).

Exhibit Dates: 1/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the duties and responsibilities of a food handler (cook). Emphasis is on small quantity cooking and baking along with applications to larger quantity food operations.

Instruction: Conference, demonstration and practical exercises are employed to provide the student with the basic knowledge of small quantity cooking along with some applications to large quantity food operating.

Credit Recommendation: In the vocational certificate category, 4 semester hours in food preparation (2/93).

AR-1729-0047

ADVANCED CULINARY SKILLS

Course Number: 8E-F5/800-F17.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 3-4 weeks (122-144 hours).

Exhibit Dates: 1/92–Present.

Learning Outcomes: Upon completion of the course, the student will have a solid understanding of food preparation principles, and will be able to utilize proper techniques in the preparation of a variety of food items including stocks, baked goods, sauces, vegetables, potatoes, meats and fish, salads, hors d'oeuvres and pate, savories and canapés, and desserts. Principles of menu planning are applied in the planning and preparation of a variety of food combining and meals.

Instruction: Conference, demonstration and practical laboratory exercises are used to present the principles and techniques of food preparation, and basic menu planning applications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of food preparation (5/96).

AR-1729-0048

ARMY MEDICAL DEPARTMENT (AMEDD) BASIC NONCOMMISSIONED OFFICER (NCO) (91R)

Course Number: 6-8-C40 (91R).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 12 weeks (487-491 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to inspect foods, food supply, and storage and food preparation services for compliance with approved standards of wholesomeness and quality.

Instruction: Course covers the inspection of poultry, egg, dairy, beef, pork, lamb, fish and other foods; the inspection of preparation and storage food service facilities; animal food supplies; and contract administration. Methodologies include lecture, laboratory, discussion, and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in food sanitation and 4 in food inspection (6/94); in the upper-division baccalaureate category, 2 semester hours in military science (6/94).

Related Occupations: 91R.

AR-1729-0049

ARMY MEDICAL DEPARTMENT (AMEDD) NONCOMMISSIONED OFFICER (NCO) (91M)

Course Number: 6-8-C40 (91M).

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 6-10 weeks (364-420 hours).

Exhibit Dates: 9/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage a medical food preparation department, including ordering, inventory control, quality assurance, equipment operation and maintenance, planning, budgeting, cost accounting, and evaluation, as well as provide for the patients on special diets.

Instruction: Course covers communication and interviewing; equipment selection; planning and supervising food production; applied nutrition and dietetics; sanitation; budgeting and cost accounting; and evaluation and quality assurance. Methodologies include lectures, laboratories, discussions, and supervised practice.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in food production management and 4 in applied nutrition and dietetics. See AR-1406-0090 for common core credit (2/96); in the upper-division baccalaureate category, 2 semester hours in military science (2/96).

Related Occupations: 91M.

AR-1729-0050

HOSPITAL FOOD SERVICE SPECIALIST

Course Number: 800-91M10.

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 7 weeks (310 hours).

Exhibit Dates: 10/94–Present.

Learning Outcomes: Before 10/94 see AR-1729-0004. Upon completion of the course, the student will be able to discuss basic nutrition and diet therapy; interview patients to determine basic dietary history; prepare food according to modified diet recipes; assemble patient trays; and prepare nourishments and tube feedings.

Instruction: Lectures and practical exercises in basic nutrition, dietary history, and modified diets. Includes preparation of modified diets using recipes.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in hospital food service and preparation and 3 in diet therapy (10/95).

Related Occupations: 91M.

AR-1732-0009

WATER TREATMENT SPECIALIST BASIC

NONCOMMISSIONED OFFICER (NCO)

(Water Treatment Specialist Basic Technical)

Course Number: 720-51N30.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 6 weeks (237 hours).

Exhibit Dates: 1/90–9/91.

Objectives: After 9/91 see AR-1732-0015. To provide the student with an overview of general water treatment operations.

Instruction: Through conferences, demonstrations, visual aids and hands-on experiences, the course covers analysis, inspection, and the nuclear, biological, and chemical functions of a water treatment specialist.

Credit Recommendation: In the vocational certificate category, 5 semester hours in water treatment specialist (5/88); in the lower-division baccalaureate/associate degree category, see AR-1406-0090 for common core credit (5/88).

Related Occupations: 51N.

AR-1732-0010

1. WATER TREATMENT SPECIALIST

2. WATER TREATMENT SPECIALIST ADVANCED
INDIVIDUAL TRAINING
(Water Treatment Specialist)

3. WATER TREATMENT SPECIALIST ADVANCED
INDIVIDUAL TRAINING
(Water Treatment Specialist)

Course Number: *Version 1:* 720-77W10.
Version 2: 720-77W10. *Version 3:* 720-77W10.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 10-11 weeks (379-380 hours). *Version 2:* 11 weeks (396 hours). *Version 3:* 8-9 weeks (296-359 hours).

Exhibit Dates: *Version 1:* 10/95–Present.
Version 2: 10/91–9/95. *Version 3:* 1/90–9/91.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to install, operate, and maintain equipment used to provide potable water and to perform water quality analysis tests. *Version 2:* Upon completion of the course, the student will be able to install, operate, and maintain equipment used to provide potable water and to perform water quality analysis tests. *Version 3:* Upon completion of the course, the student will be able to install, operate, and maintain equipment used to provide potable water and to perform water quality analysis tests.

Instruction: *Version 1:* This version is pending evaluation. Lectures, demonstration, and practical exercises in both laboratory and field water purification and treatment, water quality analysis, generator and pump operations, and with considerations of operating in a nuclear, biological, or chemically contaminated environment. *Version 2:* Lectures, demonstration, and practical exercises in both laboratory and field water purification and treatment, water quality analysis, generator and pump operations, and with considerations of operating in a nuclear, biological, or chemically contaminated environment. *Version 3:* Lectures, demonstration, and practical exercises in both laboratory and field water purification and treatment, water quality analysis, generator and pump operations, and with considerations of operating in a nuclear, biological, or chemically contaminated environment.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 6 semester hours in basic water treatment technology or water treatment specialist or in applied science (12/92). *Version 3:* In the vocational certificate category, 6 semester hours in water treatment plant operations (10/90).

Related Occupations: 77W; 77W.

AR-1732-0011

WATER TREATMENT SPECIALIST RESERVE
COMPONENT

Course Number: 720-77W10-RC.

Location: Quartermaster Center and School, Ft. Lee, VA; Reserve Component Training Facilities, Continental US.

Length: (100-120 hours).

Exhibit Dates: 1/90–12/91.

Learning Outcomes: Upon completion of the course, the student will be able to handle the tasks of field water purification, storage, and distribution of potable and palatable water to field troops.

Instruction: Lectures, demonstrations, and practical exercises in both laboratory and field in water purification, water quality analysis, and related equipment. Included is the possibility of working with water contaminated with (NBC) nuclear, biological, and chemical materials.

Credit Recommendation: In the vocational certificate category, 3 semester hours in water treatment plant operation (10/88).

Related Occupations: 77W.

AR-1732-0013

POWER GENERATION EQUIPMENT REPAIRER

Course Number: 662-52D10.

Location: Ordnance School, Ft. Belvoir, VA.

Length: 11 weeks (397 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will understand operating principles of gasoline and diesel engines used to drive electrical generators, and will understand basic electricity, portable generator design theory, and service and diagnostic techniques.

Instruction: Lecture and demonstrations on small gasoline and diesel engine theory, and AC/DC generators. Extensive laboratory and field practice in diagnosis and troubleshooting of gasoline and diesel engine driven generating sets.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in automotive shop practice, 2 in small engine service, 1 in diesel engine fundamentals, 3 in basic electricity, and 1 in AC and DC motors and generators (12/90).

Related Occupations: 52D.

AR-1732-0014

WATER TREATMENT SPECIALIST RESERVE
COMPONENT

Course Number: 101-77W10.

Location: Reserve Training Centers, Continental US.

Length: 2-3 weeks (67-89 hours).

Exhibit Dates: 3/92–Present.

Objectives: Upon completion of the course, the student will be able to operate and maintain a potable water storage and distribution system, including water treatment, using the 600 GPH reverse osmosis water purification system or the 3000 GPH reverse osmosis water purification system.

Instruction: Lectures, demonstrations, and practical exercises in: distribution and storage of water, water quality analysis, erecting, operating, and dismantling a tactical water distribution system, operating a generator and pump, and erecting, operating, and dismantling a specific reverse osmosis water purification system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in water treatment operations or 3 in applied science (2/93).

Related Occupations: 77W.

AR-1732-0015

WATER TREATMENT SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 720-77W30.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 10 weeks (361-378 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Before 10/91 see AR 1732-0009. Upon completion of the course, the student will be able to perform the tasks of a water treatment specialist supervisor, these tasks include water purification management, supervision of purification, storage, and distribution techniques in field operations including nuclear, biological, and chemical (NBC) environments.

Instruction: Through conferences, demonstrations, visual aids, and hands-on experiences, the course covers analysis, inspection, and the nuclear, biological, and chemical functions of a water treatment specialist.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in advanced water treatment technology or water treatment specialist or applied science. See AR-1406-0090 for common core credit (5/96).

Related Occupations: 77W.

AR-1733-0002

AERIAL DELIVERY AND MATERIEL OFFICER

Course Number: *Version 1:* 8B-92D. *Version 2:* 8B-92D.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 5-6 weeks (200-223 hours). *Version 2:* 11-13 weeks (394-442 hours).

Exhibit Dates: *Version 1:* 10/90–Present. *Version 2:* 1/90–9/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform as an aerial and materiel officer. *Version 2:* Upon completion of the course, the student will be able to perform as an aerial and materiel officer.

Instruction: *Version 1:* Conferences, demonstration, and practice exercises in management and technical skills required for the inspection, packing, delivery, rigging, recovery, storing, and maintenance of air drop equipment. *Version 2:* Course includes management and technical skills for the inspection, packing, delivery, rigging, recovery, storing, and maintenance of air drop equipment.

Credit Recommendation: *Version 1:* Credit is not recommended because of the military-specific nature of the course (5/96). *Version 2:* In the vocational certificate category, 2 semester hours in aerial delivery and materiel; in the upper-division baccalaureate category, 1 semester hour in air logistics (8/88) (8/88); in the upper-division baccalaureate category, 1 semester hour in air logistics (8/88).

AR-1733-0004

PARACHUTE RIGGER ADVANCED

NONCOMMISSIONED OFFICER (NCO)

(Service Noncommissioned Officer (NCO)
Advanced (Parachute Rigger))

Course Number: *Version 1:* 860-92R4P. *Version 2:* 860-43E40.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 7 weeks (293 hours). *Version 2:* 6 weeks (191 hours).

Exhibit Dates: *Version 1:* 10/95–Present. *Version 2:* 1/90–9/95.

Learning Outcomes: *Version 1:* This version is pending evaluation. To provide the student with the ability to perform parachute

rigging. *Version 2:* To provide the student with the ability to perform parachute rigging.

Instruction: *Version 1:* This version is pending evaluation. Conferences, demonstrations, visual aids, and practical exercises covering airdrop rigging and equipment repair, personnel and small cargo parachutes. *Version 2:* Conferences, demonstrations, visual aids, and practical exercises covering airdrop rigging and equipment repair, personnel and small cargo parachutes.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 3 semester hours in airdrop and parachute rigging and repair (8/85), in the lower-division baccalaureate/associate degree category, see AR-1404-0035 for common core credit (8/85).

Related Occupations: 43E; 92R.

AR-1733-0007

PARACHUTE RIGGER BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 860-92R3P. *Version 2:* 860-43E3P. *Version 3:* 860-43E30.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 7 weeks (327 hours). *Version 2:* 7 weeks (250 hours). *Version 3:* 5 weeks (208 hours).

Exhibit Dates: *Version 1:* 10/95–Present. *Version 2:* 1/92–9/95. *Version 3:* 1/90–12/91.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to supervise the packing of personal and small cargo parachutes, supervise the operation of an airdrop rigging activity, supervise the recovery of cargo parachutes and related airdrop equipment, and perform jumpmaster duties during an airdrop operation. *Version 2:* Upon completion of the course, the student will be able to supervise the packing of personal and small cargo parachutes, supervise the operation of an airdrop rigging activity, supervise the recovery of cargo parachutes and related airdrop equipment, and perform jumpmaster duties during an airdrop operation. *Version 3:* Upon completion of the course, the student will be able to supervise the packing of personal and small cargo parachutes, supervise the operation of an airdrop rigging activity, supervise the recovery of cargo parachutes and related airdrop equipment, and perform jumpmaster duties during an airdrop operation.

Instruction: *Version 1:* This version is pending evaluation. Includes classroom demonstration, lectures, and practical exercises in packing parachutes, rigging cargo for an airdrop, the planning and coordinating of airdrop operations, and jumpmaster duties and responsibilities during an airdrop. *Version 2:* Includes classroom demonstration, lectures, and practical exercises in packing parachutes, rigging cargo for an airdrop, the planning and coordinating of airdrop operations, and jumpmaster duties and responsibilities during an airdrop.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 3 semester hours in cargo

rigging (2/93), in the lower-division baccalaureate/associate degree category, 2 semester hours in personnel supervision or leadership. See AR 1406 0090 for common core credit (2/93). *Version 3:* In the vocational certificate category, 3 semester hours in advanced cargo rigging (10/88), in the lower-division baccalaureate/associate degree category, see AR 1406 0090 for common core credit (10/88).

Related Occupations: 43E; 92R.

AR-1733-0008

PARACHUTE RIGGER ADVANCED INDIVIDUAL TRAINING
(Parachute Rigger)

Course Number: *Version 1:* 860-92R1P. *Version 2:* 860-43E10; 860-43E1P. *Version 3:* 860-43E10; 860-43E10 (ST).

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 10 weeks (355 hours). *Version 2:* 11 weeks (396 hours). *Version 3:* 12-13 weeks (442-445 hours).

Exhibit Dates: *Version 1:* 10/95–Present. *Version 2:* 8/92–9/95. *Version 3:* 1/90–7/92.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to pack parachutes, rig cargo for airdrop, and repair, store, and recover airdrop equipment. *Version 2:* Upon completion of the course, the student will be able to pack parachutes, rig cargo for airdrop, and repair, store, and recover airdrop equipment. *Version 3:* Upon completion of the course, the student will be able to pack parachutes, rig cargo for airdrop, and repair, store, and recover airdrop equipment.

Instruction: *Version 1:* This version is pending evaluation. Includes some lectures, but is largely demonstration and practical exercises in parachute packing, cargo rigging and recovering, storing, and maintaining airdrop equipment. *Version 2:* Includes some lectures, but is largely demonstration and practical exercises in parachute packing, cargo rigging and recovering, storing, and maintaining airdrop equipment. *Version 3:* Includes some lectures, but is largely demonstration and practical exercises in parachute packing, cargo rigging and recovering, storing, and maintaining airdrop equipment.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 6 semester hours in cargo rigging (2/93); in the lower-division baccalaureate/associate degree category, 1 semester hour in aerial delivery and repair (2/93). *Version 3:* In the vocational certificate category, 4 semester hours in cargo rigging (10/88).

Related Occupations: 43E.

AR-1733-0009

FABRICATION OF AERIAL DELIVERY LOADS

Course Number: *Version 1:* 860-F3 (ITRO). *Version 2:* 860-F3.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 3 weeks (98 hours). *Version 2:* 4-5 weeks (161-162 hours).

Exhibit Dates: *Version 1:* 12/92–Present. *Version 2:* 1/90–11/92.

Learning Outcomes: *Version 1:* This version is pending evaluation. This course is offered for Air Force personnel. Upon completion of the course, the student will be able to

pack parachutes, rig cargo, load and secure cargo, and recover equipment used in airdrops. *Version 2:* Upon completion of the course, the student will be able to pack parachutes, rig cargo, load and secure cargo, and recover equipment used in airdrops.

Instruction: *Version 1:* This version is pending evaluation. Includes demonstrations and practical exercises in packing parachutes, rigging cargo, loading cargo, securing cargo, and recovering equipment in airdrops. *Version 2:* Includes demonstrations and practical exercises in packing parachutes, rigging cargo, loading cargo, securing cargo, and recovering equipment in airdrops.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 2 semester hours in cargo rigging (10/88).

AR-1733-0010

1. AIRDROP SYSTEMS WARRANT OFFICER BASIC
2. AIRDROP SYSTEMS TECHNICIAN WARRANT OFFICER TECHNICAL/TACTICAL CERTIFICATION

Course Number: *Version 1:* 4N-921A. *Version 2:* 4N-921A.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: *Version 1:* 9 weeks (339-340 hours). *Version 2:* 8-9 weeks (341 hours).

Exhibit Dates: *Version 1:* 4/94–Present. *Version 2:* 1/90–3/94.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to plan all the operational requirements of an airdrop operation to include logistical support, drop site layouts, staff needs, work flow, costs and recovery; and to manage the technical functions to include packing the parachutes, rigging the cargo, repairing airdrop equipment, maintaining records, enforcing safety regulations, and inspecting equipment. *Version 2:* Upon completion of the course, the student will be able to plan all the operational requirements of an airdrop operation to include logistical support, drop site layouts, staff needs, work flow, costs and recovery; and to manage the technical functions to include packing the parachutes, rigging the cargo, repairing airdrop equipment, maintaining records, enforcing safety regulations, and inspecting equipment.

Instruction: *Version 1:* This version is pending evaluation. Includes classroom lectures and practical exercises in supervising the packing of parachutes, rigging of cargo, equipment repair and operation, and developing the plans and identifying the operational needs of airdrop operations. *Version 2:* Includes classroom lectures and practical exercises in supervising the packing of parachutes, rigging of cargo, equipment repair and operation, and developing the plans and identifying the operational needs of airdrop operations.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the vocational certificate category, 3 semester hours in advanced cargo rigging (10/88); in the lower-division baccalaureate/associate degree category, 1 semester hour in cargo transportation (10/88).

Related Occupations: 921A.

AR-1733-0011

- EXPLOSIVE ORDNANCE DISPOSAL PARACHUTE RIGGING

Course Number: 431-F3 (Navy); 431-F3. **Location:** Quartermaster Center and School, Ft. Lee, VA.

Length: 4 weeks (145 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to qualified and certified for membership of the Navy Explosive Ordnance Disposal team in parachute packing, selected airdrop rigging, and aerial delivery maintenance.

Instruction: Demonstrations, practical exercises, and examinations in parachute packing, airdrop rigging, and airdrop equipment repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aerial delivery and material, or air drop equipment and repair (5/96).

AR-2101-0002

- ROUGH TERRAIN CONTAINER HANDLER OPERATOR

Course Number: *Version 1:* 822-ASIB1; 822-F24. *Version 2:* 822-ASIB1; 822-F24.

Location: *Version 1:* Transportation School, Ft. Rucker, AL. *Version 2:* Transportation School, Ft. Story, VA; Transportation and Aviation Logistics School, Ft. Eustis, VA.

Length: *Version 1:* 2-3 weeks (78 hours). *Version 2:* 2-3 weeks (78 hours).

Exhibit Dates: *Version 1:* 10/93–Present. *Version 2:* 1/90–9/93.

Objectives: *Version 1:* To train qualified enlisted personnel in the operation of a heavy duty fork lift. *Version 2:* To train qualified enlisted personnel in the operation of a heavy duty fork lift.

Instruction: *Version 1:* Lectures and practical experiences in the familiarization, operation, lifting procedures, and preventive maintenance of heavy duty forklift vehicles. *Version 2:* Lectures and practical experiences in the familiarization, operation, lifting procedures, and preventive maintenance of heavy duty forklift vehicles.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in forklift operation (1/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in forklift operation (6/91).

AR-2101-0003

- PETROLEUM VEHICLE OPERATOR

Course Number: 821-ASIH7; 811-F3.

Location: Training Center, Ft. Dix, NJ.

Length: 5 weeks (180 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate a light and heavy cargo truck and tractor and tanker vehicles under all road conditions, and will be able to perform operator maintenance checks on the vehicles.

Instruction: Lectures and practical exercises in the operation of quarter ton and five-ton cargo trucks and the five-ton and 5,000-gallon tanker.

Credit Recommendation: In the vocational certificate category, 2 semester hours in truck driving (6/91).

AR-2102-0004

- ROUGH TERRAIN CONTAINER HANDLER OPERATOR RESERVE

Course Number: 551-ASIB1-RC.

Location: Selected Reserve Training Locations, US.

Length: 73 hours.

Exhibit Dates: 9/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the duties of a heavy duty fork lift operator.

Instruction: Lectures and practical exercises in the familiarization, operation, lifting procedures, and preventive maintenance of heavy duty forklift vehicles.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in fork lift operation (3/94).

AR-2201-0022

- AMMUNITION SPECIALIST (Ammunition Storage)

Course Number: 645-55B10; 645-55B10 (ST); 645-55B20.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 4-8 weeks (145-260 hours).

Exhibit Dates: 1/90–9/90.

Objectives: To provide enlisted personnel with knowledge of the receipt, storage, shipment, issue, safety, and security of ammunition components, and military explosives, ammunition.

Instruction: Conferences and practical exercises in ammunition material, service procedures, storage, handling, movement, inspection, maintenance, and destruction. Upon completion of the course students will be able to identify and handle various ammunition material; prepare, store, and issue ammunition; perform explosive decontamination; and perform emergency destruction of ammunition.

Credit Recommendation: In the vocational certificate category, 3 semester hours in explosives handling (10/90).

Related Occupations: 55A; 55B.

AR-2201-0029

- CHEMICAL OPERATIONS SPECIALIST (Chemical (54-CMF) Noncommissioned Officer (NCO) Advanced) (Chemical (CL-CMF) Noncommissioned Officer (NCO) Advanced)

Course Number: 4-54-C42; 4-CL-C42.

Location: Chemical School, Ft. McClellan, AL; Ordnance and Chemical School, Aberdeen Proving Ground, MD.

Length: 12 weeks (435 hours).

Exhibit Dates: 1/90–2/92.

Objectives: After 2/92 see AR-0801-0029. To provide enlisted personnel with a basic understanding of nuclear, chemical and biological defense, and to qualify them as master sergeants.

Instruction: Lectures on Army management practices and concepts, including logistical and maintenance management; chemical, biological, and nuclear warfare; and radiological defense.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in radiological safety, 3 in nuclear instrumentation, and 3 in introduction to management (11/86).

Related Occupations: 54B; 54C; 54D; 54E; 54F; 92D.

AR-2201-0037

ELECTRONIC WARFARE (EW) CRYPTOLOGIC
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

(Military Intelligence Advanced (98 CMF)
Noncommissioned Officer (NCO))

Course Number: 230-F1

Location: Security Agency School, Ft. Devens, MA

Length: 7-9 weeks (231-294 hours)

Exhibit Dates: 1/90-12/90

Objectives: To train senior noncommissioned officers to manage electronic warfare/cryptologic operations of the Army Security Agency.

Instruction: Training in management and supervision techniques pertaining to military systems, military science, and intelligence and security techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management procedures and supervision of maintenance personnel (2/83).

AR-2201-0038

PATHFINDER

Course Number: 2E-F3/011-SQIY; 2E-F3; 001-SQIY; 011-F3.

Location: Infantry School, Ft. Benning, GA.

Length: 3-5 weeks (129-247 hours).

Exhibit Dates: 1/90-7/90.

Objectives: To train officer and enlisted paratroopers to provide navigational assistance to drop-zone aircraft and deploying troops.

Instruction: Lectures and practical exercises in the organization, mission, and training of pathfinder platoons; electronics; communications; and map reading.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/87).

AR-2201-0041

RANGER

Course Number: 2E-F2/011-F2; 7-OE-15; 7-D-F4; 2E-F2; 011-F2.

Location: Infantry School, Ft. Benning, GA.

Length: 7-9 weeks (499-1052 hours).

Exhibit Dates: 1/90-8/92.

Objectives: To develop leadership qualities in selected officers and enlisted men by providing training in self-discipline and obedience.

Instruction: Lectures and practical exercises in map reading and land navigation; tactical training in guerilla operations; demolition; patrolling and leadership; intelligence, endurance, and confidence tests; and physical training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in physical education (9/85).

AR-2201-0042

MARINE ARTILLERY OPERATIONS CHIEF

Course Number: 250-848; 250-F5.

Location: Field Artillery School, Ft. Sill, OK.

Length: 13-14 weeks (472-502 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train noncommissioned officers to supervise field artillery operations.

Instruction: Lectures and practical exercises in gunnery, target acquisition, tactics and combined arms, artillery meteorology, survey, fire support coordination, fire planning, and observed fire.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/86).

AR-2201-0047

FIELD ARTILLERY OFFICER ADVANCED
PRELIMINARY

Course Number: 2G-F50

Location: Field Artillery School, Ft. Sill, OK.

Length: 3 weeks (110 hours).

Exhibit Dates: 1/90-Present

Objectives: To prepare selected officers for the field artillery officer advanced course.

Instruction: Fundamentals of fire procedures, target location, firing charts, fire direction control, and related artillery fundamentals.

Credit Recommendation: In the vocational certificate category, 1 semester hour in technical mathematics (10/83).

AR-2201-0056

AMMUNITION INSPECTOR

(Military Ammunition Inspector)

(Ammunition Inspector)

Course Number: 645-55X30 (AC); 645-55X30; 645-55X40.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 7-12 weeks (233-420 hours).

Exhibit Dates: 1/90-9/90.

Objectives: To train enlisted personnel to inspect ammunition.

Instruction: Conferences and practical exercises in ammunition material; rocket and guided missile inspection and maintenance; storage, handling, and transportation of ammunition; surveillance and maintenance of ammunition; and demilitarization and destruction of ammunition.

Credit Recommendation: In the vocational certificate category, 3 semester hours in explosives handling (10/86).

Related Occupations: 55B; 55C; 55D; 55G; 55X; 55Z.

AR-2201-0063

CHAPARRAL/VULCAN OFFICER QUALIFICATION

(Chaparral/Vulcan Officer and Noncommissioned Officer (NCO) Qualification)

(Chaparral/Vulcan Noncommissioned Officer (NCO) Qualification)

Course Number: 2E-14B; 2E-1174; 2F-F8; 121-F17.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 4-8 weeks (171-294 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide training in Chaparral/Vulcan air defense system characteristics, capabilities, limitations, and air defense tactics, with emphasis on battery or battalion operations.

Instruction: Lectures and practical exercises in the organization, maintenance, systems control, and test and firing procedures of the Vulcan and Chaparral air defense systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/88).

AR-2201-0085

INFANTRY MORTAR LEADER
(Infantry Mortar Platoon)

Course Number: 2E-S13Z/010-F1; 2E-AS13Z/010-F1; 2E-11B/C; 2E-AS132; 2E-1543, 010-F1

Location: Infantry School, Ft. Benning, GA.

Length: 5-7 weeks (216-274 hours).

Exhibit Dates: 1/90-10/94.

Objectives: To train officers and noncommissioned officers to command infantry heavy mortar units.

Instruction: Lectures and practical exercises in the supervision of a heavy mortar platoon in support of infantry combat operations, including tactical employment, methods of employment, tactical considerations, tactical training, communications, weapons, mechanical training and crew drill, forward observation procedures, fire direction center procedures, and heavy mortar platoon communications.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (5/92).

Related Occupations: 11C.

AR-2201-0095

NIKE HERCULES OFFICER

Course Number: 2F-14C.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 4-8 weeks (151-288 hours).

Exhibit Dates: 1/90-6/94.

Objectives: To train commissioned officers in the essential materiel and tactics pertaining to the Nike Hercules system.

Instruction: Lectures and practical exercises in the essential materiel and tactics pertaining to the Nike Hercules system. Course covers general description of the Nike Hercules system, block diagrams, operational procedures, general maintenance requirements, handling of nuclear weapons, and air defense tactics pertaining to the Nike Hercules system.

Credit Recommendation: Credit is not recommended because of the limited, technical nature of the course (1/88).

AR-2201-0096

SMALL ARMS REPAIR

Course Number: 641-45B10/641-2111; 641-45B20; 641-2111 (USMC); 9-E-11.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 5-12 weeks (210-543 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel to maintain small arms and materiel.

Instruction: Lectures and practical exercises in small arms and materiel maintenance, including rifles, machine guns, submachine guns, mortars, rocket launchers, recoilless weapons, pistols, and grenade launchers.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/91).

Related Occupations: 45B; 45Z.

AR-2201-0145

MARINE ARTILLERY SCOUT OBSERVER

Course Number: 250-0841; 250-0846.

Location: Field Artillery School, Ft. Sill, OK.

Length: 4-5 weeks (152-162 hours).

Exhibit Dates: 1/90–Present.

Objectives: To qualify enlisted personnel in the technical aspects of planning, acquiring, and controlling artillery fire.

Instruction: Lectures and practical exercises in communications and electronics; gunnery; map and aerial photograph reading; and the development of artillery fire support plans.

Credit Recommendation: Credit is not recommended because of the limited, technical nature of the course (1/90).

AR-2201-0162

SPECIAL FORCES OFFICER

(Special Forces Officer (Modified))

Course Number: 2E-F8; 33-G-F3.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC; Institute for Military Assistance, Ft. Bragg, NC.

Length: 12-13 weeks (574-873 hours).

Exhibit Dates: 1/90–4/92.

Objectives: To provide students with a general knowledge of the latest doctrine and techniques of Special Forces operations.

Instruction: Lectures and practical exercises in development and employment of resistance forces; infiltration and exfiltration; unconventional warfare organization and capabilities; stability and psychological operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in physical education (2/80); in the upper-division baccalaureate category, 3 semester hours in military science and tactics (2/80).

AR-2201-0167

OFFICER CANDIDATE

Course Number: 2-7-F1; 7-N-F1; 7-E-14.

Location: Infantry School, Ft. Benning, GA.

Length: 14 weeks (500-1056 hours).

Exhibit Dates: 1/90–2/92.

Objectives: To prepare selected personnel to become officers in the reserve components of the Army.

Instruction: Lectures, conferences, demonstrations and practical exercises in tactical doctrines, armed forces operations, training management, military leadership, land navigation, physical fitness, and drill and command.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of management, 3 in personnel management, 3 in physical education, and 1 in map reading (10/88).

AR-2201-0168

FIELD ARTILLERY OFFICER BASIC (RESERVE COMPONENT)

(Field Artillery Officer Candidate (Reserve Component))

Course Number: 2-6-C25; 2-6-F2; 2-N-F2.

Location: Artillery and Missile School, Ft. Sill, OK.

Length: 8-11 weeks (293-493 hours).

Exhibit Dates: 1/90–Present.

Objectives: To prepare personnel to qualify as second lieutenants in National Guard or Reserve field artillery units.

Instruction: Lectures and practical exercises in maintenance management, communication electronics, gunnery, tactics, map reading, military law, target acquisition, drill and ceremonies, physical training, and leadership.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in military science (11/85).

AR-2201-0181

MANEUVER COMBAT ARMS INFANTRY

NONCOMMISSIONED OFFICER (NCO)

ADVANCED

Course Number: O-111-C42.

Location: Infantry School, Ft. Benning, GA.

Length: 10 weeks (400 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide middle-grade enlisted personnel with sufficient knowledge to perform infantry armor military duties.

Instruction: Lectures and practical exercises to include tactical doctrine, fundamentals of combat in built up areas, stability operations in insurgent areas, engineer operations, intelligence and logistics, personnel management, map and air photo reading, military leadership, physical training and combatively, communications/electronics, crew-served weapons and written and oral communications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and management and 3 in communications (9/85).

AR-2201-0192

INFANTRY OFFICER BASIC

(Basic Infantry Officer)

Course Number: 2-7-C20; 7-A-C1.

Location: Infantry School, Ft. Benning, GA.

Length: 17 weeks (964 hours).

Exhibit Dates: 1/90–5/92.

Objectives: To train newly commissioned officers in the duties and responsibilities of infantry platoon leaders in rifle and weapons platoons.

Instruction: Conference/lecture, computer-assisted instruction, and practical exercises in armed forces operation, NBC operations, military leadership, land navigation, communications, maintenance management, individual weapons, crew-served weapons and antiarmor weapons systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading and 3 in principles of management (9/85); in the upper-division baccalaureate category, 3 semester hours in maintenance management (9/85).

AR-2201-0193

FIELD ARTILLERY OFFICER BASIC

(Regular Army Field Artillery Officer Basic)

(Field Artillery Officer Orientation)

Course Number: *Version 1:* 2-6-C20; 2-6-C20 (RA); 6-A-C20; 6-A-C1; 6-O-A. *Version 2:* 2-6-C20; 2-6-C20 (RA); 6-A-C20; 6-A-C1; 6-O-A.

Location: Field Artillery School, Ft. Sill, OK; Artillery and Missile School, Ft. Sill, OK.

Length: *Version 1:* 19 weeks (750 hours). *Version 2:* 18-19 weeks (716 hours).

Exhibit Dates: *Version 1:* 1/91–Present. *Version 2:* 1/90–12/90.

Objectives: *Version 1:* To prepare Field Artillery officers to function in their first duty assignments in the areas of training and maintenance management, leadership, fire direction techniques and coordination of artillery firing. *Version 2:* To prepare Field Artillery officers to function in their first duty assignments in the areas of training and maintenance management, leadership, fire direction techniques and coordination of artillery firing.

Instruction: *Version 1:* Pending evaluation. *Version 2:* Instruction includes maintenance management, leadership, communications equipment; precision techniques in gunnery, both manual and FADAC computer; meteorological effects and computations, map and terrain association, survey procedures; artillery fire coordination and tactics.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in leadership, 1 in electronic communication systems, and 2 in maintenance management (11/85).

Related Occupations: 11B; 11C; 13E.

AR-2201-0203

SPACE COLLECTION OPERATIONS

(Space Collection (SPACOL) Operations)

(Telemetry Collection Operations)

Course Number: 233-ASIG4; 233-F7.

Location: Intelligence School, Ft. Devens, MA.

Length: 5-7 weeks (168-248 hours).

Exhibit Dates: 1/90–3/94.

Learning Outcomes: Upon completion of the course, the student will be able to intercept, recognize, and record electromagnetic emissions emanating from airborne equipment, missiles, and satellites.

Instruction: Lectures and practical experience in the maintenance and operation of space collector operations equipment including the types, parameters, and identification of space signals, intercept equipment, satellite plotting, and report format. Students will be trained to intercept, log, record, and identify noncommunications electronic emissions as emanating from missiles, earth satellite vehicles and associated equipment.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (5/87).

AR-2201-0212

WARRANT OFFICER CANDIDATE MILITARY DEVELOPMENT

Course Number: 2C-F32.

Location: Aviation Center, Ft. Rucker, AL.

Length: 6 weeks (212-220 hours).

Exhibit Dates: 1/90–1/90.

Objectives: To train warrant officer candidates in leadership, physical conditioning and future potential in military setting.

Instruction: Military subjects covered include communicative arts, military personnel management, maintenance management, strategy, and warrant officer development subjects.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/86).

AR-2201-0213

FIELD ARTILLERY CANNON (FA-CMF)
NONCOMMISSIONED OFFICER (NCO)
ADVANCED

Course Number: 0-13-C42

Location: Field Artillery School, Ft. Sill, OK

Length: 8-11 weeks (277-402 hours).

Exhibit Dates: 1/90-Present

Objectives: To train the noncommissioned officer to be an exporter of modern battlefield tactics, techniques and procedures to the gaining unit.

Instruction: Subjects include target acquisition, communications electronics, tactics and combined arms, weapons, gunnery and field artillery. Leadership training and supervision skills are emphasized for all students. Map reading and plotting to determine azimuth and elevation are emphasized for those students having MOS 13B and 13E.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, for all students completing the course, 2 semester hours in leadership fundamentals; for those students holding MOS 13B and 13E, 1 semester hour in map reading (10/83).

Related Occupations: 13B; 13E; 13Z.

AR-2201-0219

FIELD ARTILLERY CANNON BATTERY OFFICER

Course Number: 2E-13A.

Location: Field Artillery School, Ft. Sill, OK.

Length: 8 weeks (320 hours).

Exhibit Dates: 1/90-1/92.

Objectives: To train officers in the techniques, processes and procedures and to provide the background knowledge necessary for functioning in a cannon-equipped unit.

Instruction: Lectures and practical exercises in communications equipment, weapons characteristics, and capabilities, tactics, nuclear projectiles and safety, survey concepts, and FADAC computer use in mathematical solutions. Major emphasis is in gunnery fire techniques including ballistic corrections, high angle trajectory and special employment techniques.

Credit Recommendation: Credit is granted on the basis of institutional evaluation (1/80).

AR-2201-0252

LIGHT AIR DEFENSE ARTILLERY (ADA) CREW
MEMBER

Course Number: 16F10-OSUT; 043-16F10-OSUT; 043-16F10.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 6-13 weeks (239-508 hours).

Exhibit Dates: 1/90-6/94.

Objectives: To train enlisted personnel to become light air defense artillery crew members.

Instruction: Training in basic military equipment, procedures and practices in use, operation and assembly of a specific artillery piece.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (11/88).

Related Occupations: 16F.

AR-2201-0253

PRIMARY LEADERSHIP DEVELOPMENT

Course Number: *Version 1:* 600-00-PLDC; *Version 2:* 612-01-PLDC; 680-02-PLDC; 698-03-PLDC; 682-04-PLDC; 685-05-PLDC; 662-06-PLDC; 645-07-PLDC; 635-08-PLDC; 690-09-PLDC; 640-10-PLDC; 620-11-PLDC; 672-12-PLDC; 675-13-PLDC; 696-14-PLDC; 692-15-PLDC; 694-16-PLDC; 693-17-PLDC; 695-18-PLDC; 605-19-PLDC; 665-20-PLDC; NGB-PLDC (AC); 687-21-PLDC.

Location: *Version 1:* NCO Academies, Germany; NCO Academies, Korea; NCO Academies, US. *Version 2:* NCO Academy, Ft. Knox, KY; NCO Academy, Ft. Bragg, NC; NCO Academy, Ft. Benning, GA; NCO Academy, Ft. Stewart, GA; NCO Academy, Ft. Campbell, KY; NCO Academy, Ft. Polk, LA; NCO Academy, Ft. Riley, KS; NCO Academy, Ft. Sill, OK; NCO Academy, Ft. Hood, TX; NCO Academy, Ft. Carson, CO; NCO Academy, Ft. Bliss, TX; NCO Academy, Ft. Ord, CA; NCO Academy, Ft. Lewis, WA; NCO Academy, Ft. Richardson, AK; NCO Academy, Schofield Barracks, HI; NCO Academy, Ft. Sherman, Panama; NCO Academy, EUSA, Korea; NCO Academies, Europe; NCO Academy, Ft. Dix, NJ; NCO Academy, Ft. Leonard Wood, MO; National Guard Bureau NCO Academy, Cp. Beauregard, LA; NCO Academy, 10th Mountain Division (L), Ft. Drum, NY.

Length: *Version 1:* 4 weeks (362 hours). *Version 2:* 4-6 weeks (292-307 hours).

Exhibit Dates: *Version 1:* 10/93-Present. *Version 2:* 1/90-9/93.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform all basic tasks relating to the noncommissioned officer leadership responsibility. *Version 2:* Upon completion of the course, the student will be able to perform all basic tasks relating to the noncommissioned officer leadership responsibility.

Instruction: *Version 1:* The course includes introductory material on personal leadership, communications, resource management, and training management. The leadership block includes material on leader characteristics, ethics, problem solving, styles of leadership, human motivation, personal counseling, and the exercise of authority. Emphasis is placed on teaching to teach and on leading personnel in a small unit environment. Substantial attention is given to practical application in a field-based environment. *Version 2:* Lectures and practical exercises in leadership, communications, resource management, training management, and professional skills, including introduction to leadership, principles of leadership, human behavior, character of leaders, ethics, problem solving, leadership styles, principles of motivation, counseling, and responsibility of authority. Emphasis is on teaching to teach and to lead soldiers who will work and fight under their leadership. Course content includes defensive/offensive operations, and field training exercises in which previous lessons are applied.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of supervision and 2 in military science (6/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of supervision and 2 in military science (12/91).

AR-2201-0254

EFFECTIVE MILITARY WRITING

Course Number: 1-19-XP-100.

Location: Military Police School, Ft. McClellan, AL.

Length: Self-paced, 1-2 weeks (48 hours).

Exhibit Dates: 1/90-Present.

Objectives: To enhance professional written Army communications for selected enlisted, noncommissioned, and commissioned officers.

Instruction: This course includes instruction in organization, mechanics, punctuation, and sentence construction. Concentrates on Army written communications and the staff study.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (3/82).

AR-2201-0255

INITIAL ENTRY TRAINING (IET) CADRE COURSE
(ACTIVE ARMY)

Course Number: 1B-F8/012-F16; 1B-F3/012-F11; 1B-F5/012-F13; 1B-F4/012-F12; 1B-F7/012-F15; 1B-F9/012-F17; 1B-F6/012-F14; 1B-F10/012-F18.

Location: Training Centers, Continental US. **Length:** Self-paced, 2-3 weeks (80-120 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide training for selected initial entry training cadre in creating initial entry training environment for the drill sergeant and the trainee.

Instruction: Instruction is individually and group-paced and consists of classroom, outdoor, range and other field environments. Emphasis is on selecting techniques to manage initial entry training. Instruction includes skills such as how to discriminate levels of willingness and ability in soldiers. Counseling techniques and managing stress are included.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/87).

AR-2201-0256

FIELD ARTILLERY CANNON FIRE SUPPORT
SPECIALIST BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: 250-2-13F30; 250-5-13F30; 250-8-13F30; 250-9-13F30; 250-10-13F30; 250-13-13F30; 250-18-13F30.

Location: NCO Academy, Ft. Campbell, KY; NCO Academy, Ft. Sill, OK; NCO Academy, Ft. Hood, TX; NCO Academy, Ft. Carson, CO; NCO Academy, Ft. Lewis, WA; NCO Academy, Ft. Bragg, NC; NCO Academy, 7th Army, Europe.

Length: 5 weeks (189-237 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide skills, knowledge, and practical experience for supervising and managing a fire support team in an artillery firing battery.

Instruction: Emphasizes map reading, leadership, counseling, charting and plotting, army supply system and training management system, and first aid.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in map reading, 1 in supply and maintenance systems, and additional credit on the basis of institutional evaluation.

See AR-1406-0090 for common core credit (10/90).

Related Occupations: 13F.

AR-2201-0257

CANNON FIRE DIRECTION SPECIALIST BASIC
NONCOMMISSIONED OFFICER (NCO)

(Field Artillery Cannon Fire Direction Specialist Basic Noncommissioned Officer (NCO))

Course Number: 250-2-13E30; 250-5-13E30; 250-8-13E30; 250-9-13E30; 250-10-13E30; 250-13-13E30; 250-18-13E30.

Location: NCO Academy, Ft. Campbell, KY; NCO Academy, Ft. Sill, OK; NCO Academy, Ft. Hood, TX; NCO Academy, Ft. Carson, CO; NCO Academy, Ft. Lewis, WA; NCO Academy, 7th Army, Europe; NCO Academy, Ft. Bragg, NC.

Length: 5-7 weeks (222-289 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide skills and knowledge required by a battery chief computer in a field artillery firing battery and practical experience in directing and managing a fire direction section.

Instruction: Provides instruction in nuclear, biological, and chemical warfare, laws of warfare, alcohol and drug abuse, communication equipment, battalion training management system, land navigation, and map reading.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in map reading, 1 in supply and maintenance systems, and additional credit on the basis of institutional evaluation. See AR-1406-0090 for common core credit (1/92).

Related Occupations: 13E.

AR-2201-0259

FIELD ARTILLERY PRE-COMMAND

Course Number: 2G-F23.

Location: Field Artillery School, Ft. Sill, OK.

Length: 1-3 weeks (64-120 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide an understanding of training and maintenance doctrines.

Instruction: Open forum on the organization and mission of the field artillery center; discussions on updating techniques, fire planning, coordination, doctrine changes, and general army maintenance procedures.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (7/92).

AR-2201-0260

NUCLEAR CANNON ASSEMBLY
(Atomic Cannon Eight Inch)

Course Number: 041-F5; 4F-F5; 041-AS15.

Location: Field Artillery School, Ft. Sill, OK.

Length: 1-2 weeks (55-70 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide a working knowledge of the inspection, set-up, and prefire operations of the M753 and M422 atomic projectiles.

Instruction: Instruction in prefire procedures, safety procedures, and the assembly, dis-

assembly, storage, and security of the eight inch atomic projectile.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/83).

AR-2201-0261

PATRIOT AIR DEFENSE OFFICER

Course Number: 2F-14EX; 2F-14E.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 8-10 weeks (294-306 hours).

Exhibit Dates: 1/90-11/93.

Objectives: After 11/93 see AR-2201-0421. To teach commissioned officers in the operational requirements, tactical employment, and operational procedures of the Patriot air defense system.

Instruction: Lectures and laboratory assignments are designed to provide the student with the basic knowledge of the Patriot air defense weapon, to include system operation, crew drill, maintenance, and command and control.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (7/91).

AR-2201-0262

BASIC NONCOMMISSIONED OFFICER (NCO)
(16R30)

Course Number: 043-11-16R30.

Location: NCO Academy, Ft. Bliss, TX; NCO Academy, Ft. Carson, CO; NCO Academy, Ft. Lewis, WA; NCO Academy, Ft. Bragg, NC; NCO Academy, Ft. Campbell, KY; NCO Academy, 7th Army, Germany.

Length: 5 weeks (176-226 hours).

Exhibit Dates: 1/90-6/94.

Objectives: To train qualified personnel to lead, train, and direct subordinates to maintain, operate, and employ weapons and equipment.

Instruction: This course includes conferences and practical exercises as well as workshops to train a Vulcan squad, and to instruct in the deployment and supervision of a Vulcan squad.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (3/89).

Related Occupations: 16R.

AR-2201-0263

BASIC NONCOMMISSIONED OFFICER (NCO)
(16P30)

Course Number: 043-11-16P30.

Location: NCO Academy, Ft. Bliss, TX; NCO Academy, 7th Army, Germany.

Length: 5 weeks (192-234 hours).

Exhibit Dates: 1/90-6/94.

Objectives: To train air defense artillery short range missile squad leaders to lead, train, and direct subordinates to maintain, operate, and employ weapons and equipment.

Instruction: This course consists of conferences and practical exercises in training fundamentals, training a Chaparral squad, and deployment and supervision of a Chaparral squad.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (3/89).

Related Occupations: 16P.

AR-2201-0264

BASIC NONCOMMISSIONED OFFICER (NCO)
(16S30)

Course Number: 043-11-16S30; 043-10-16S30; 043-09-16S30; 043-9-16S30; 043-15-16S30; 043-13-16S30; 043-18-16S30; 043-2-16S30; 043-5-16S30.

Location: NCO Academy, Ft. Bliss, TX; NCO Academy, Ft. Carson, CO; NCO Academy, Ft. Hood, TX; NCO Academy, Ft. Lewis, WA; NCO Academy, Ft. Campbell, KY; NCO Academy, Ft. Bragg, NC; NCO Academy, HI; NCO Academy, 7th Army, Europe.

Length: 4-5 weeks (176-236 hours).

Exhibit Dates: 1/90-6/94.

Objectives: To teach selected personnel to lead, train, and direct subordinates to maintain, operate, and employ weapons and equipment.

Instruction: Conferences, practical exercises, and workshops help teach the soldiers to prepare and conduct training, and to train, deploy, and supervise a Redeye/Stinger section.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (3/89).

Related Occupations: 16S.

AR-2201-0265

AIR DEFENSE ARTILLERY (ADA) PRE-COMMAND

Course Number: 2G-F25.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 2-3 weeks (68-103 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide selected battalion, group, and brigade command designees with a refresher course on logistics and maintenance management, training management, tactics, command perceptions, and professional development electives.

Instruction: This course includes the latest available information on maintenance management and logistics, training management, tactics, and general theory of operation and evaluation of readiness of operational air defense weapon systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/92).

AR-2201-0266

MAN PORTABLE AIR DEFENSE SYSTEM
(MANPADS) FORSCOM CADRE NET

Course Number: 043-F5.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 3 weeks (118 hours).

Exhibit Dates: 1/90-Present.

Objectives: To provide Redeye supervisory personnel with the training to qualify them to operate and maintain the Stinger weapon system and to prepare them as instructors of the Stinger weapon system.

Instruction: Using conferences and practical exercises, the following topics are presented: introduction to the Stinger system, its operation and maintenance; moving target simulation; and live aircraft tracking.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/84).

Related Occupations: 16S.

AR-2201-0267

BASIC NONCOMMISSIONED OFFICER (NCO)
(16J30)

Course Number: 221-11-16130

Location: Air Defense Artillery School, Ft. Bliss, TX

Length: 5 weeks (185-227 hours)

Exhibit Dates: 1/90-6/94

Objectives: To teach air defense artillery forward area alerting radar (FAAR) section chiefs to lead, train, and direct subordinates to maintain, operate, and deploy equipment.

Instruction: This course consists of practical exercises and lectures in the conduction of training, personnel supervision, and training and supervision of a FAAR equipped section.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (3/89).

Related Occupations: 16J.

AR-2201-0268

BASIC NONCOMMISSIONED OFFICER (NCO)
(16D30)

Course Number: 043-11-16D30.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 5 weeks (180-227 hours).

Exhibit Dates: 1/90-6/94.

Objectives: To prepare Hawk Missile Firing Section Chiefs to lead, train, and direct subordinates, to maintain, operate and deploy/employ weapons and equipment.

Instruction: This course employs conferences, practical exercises and workshops to develop and conduct section training, train a Hawk section in common tasks, train a Hawk launcher section, and deploy and supervise a Hawk section.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (3/89).

Related Occupations: 16D.

AR-2201-0269

BASIC NONCOMMISSIONED OFFICER (NCO)
(16E30)

Course Number: 043-11-16E30.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 5 weeks (197-248 hours).

Exhibit Dates: 1/90-6/94.

Objectives: To prepare Hawk Missile Fire Control Section to lead, train, and direct subordinates to maintain, operate, deploy/employ weapons and equipment.

Instruction: This course consists of conferences, workshops, and practical exercises to develop and conduct section training, to train a Hawk section in common tasks, and to train, deploy, and supervise a Hawk section.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (3/89).

Related Occupations: 16E.

AR-2201-0270

SIGNAL PRECOMMAND
(Battalion/Brigade Pre-Command)

Course Number: 2G-F40.

Location: Signal School, Ft. Gordon, GA.

Length: 2-3 weeks (81-114 hours).

Exhibit Dates: 1/90-Present.

Objectives: To prepare student for battalion and brigade level command.

Instruction: Course includes a review of policies and procedures inherent in signal organizations, including personnel and maintenance procedures and training reports.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (6/90).

AR-2201-0271

ARMY MEDICAL DEPARTMENT (AMEDD)
BATTALION/BRIGADE PRE-COMMAND

Course Number: 7M-F2

Location: Academy of Health Sciences, Ft. Sam Houston, TX.

Length: 2 weeks (77-82 hours).

Exhibit Dates: 1/90-Present.

Objectives: To prepare individuals for battalion and grade level command and to insure and understanding of current Army training, personnel, logistics and tactical doctrine.

Instruction: Areas of instruction include: military science as related to utilization of medical personnel; health care administration; preventive medicine countermeasures; and combat stress and battle fatigue preparedness.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (2/95).

AR-2201-0272

INFANTRY PRECOMMAND

Course Number: 2G-F26.

Location: Infantry School, Ft. Benning, GA.

Length: 1-3 weeks (87-167 hours).

Exhibit Dates: 1/90-9/92.

Objectives: To train the student in the overall management of unit operations in preparation for the assumption of command responsibility.

Instruction: Lecture and demonstration techniques in offensive and defensive tactical doctrine, field artillery, and field engineering.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/92).

AR-2201-0273

JUMPMASTER

Course Number: 2E-F3/011-F16; 2E-F60/011-F16.

Location: Infantry School, Ft. Benning, GA.

Length: 1-2 weeks (77-80 hours).

Exhibit Dates: 1/90-9/90.

Objectives: To train students (qualified parachutists) and jumpmaster techniques.

Instruction: Lecture, demonstration, and practical exercises in parachuting techniques.

Credit Recommendation: In the vocational certificate category, 2 semester hours in parachuting techniques (9/85).

AR-2201-0274

PRIMARY NONCOMMISSIONED OFFICER (NCO) FOR
COMBAT ARMS

Course Number: None.

Location: NCO Academies, Continental US; NCO Academies, EUSA; NCO Academies, Europe.

Length: 4 weeks (212 hours).

Exhibit Dates: 1/90-Present.

Objectives: To develop leadership skills and techniques in a combat arms soldier who has

been selected as having potential to become an NCO

Instruction: Lecture and practical exercises that provide a thorough understanding of the responsibilities of NCOs, leadership techniques that apply to their positions, and training and managing their soldiers.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (9/85).

AR-2201-0275

LIGHT LEADER

Course Number: 2E-F68/010-F8.

Location: Infantry School, Ft. Benning, GA.

Length: 4 weeks (160-389 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train company grade officers and enlisted personnel (AC & RC leaders) to enable them to command and fill leadership positions in light infantry divisions.

Instruction: Lecture and practical exercises in collective and individual combat skills including: land navigation, marksmanship, survival, and small unit tactics to develop a cohesive command structure.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (9/85).

AR-2201-0276

BRADLEY FIGHTING VEHICLE INFANTRYMAN
(Bradley Fighting Vehicle Infantryman
Phase 1, Phase 2, Prior Service)

Course Number: 11M10-OSUT; 010-11M10.

Location: Infantry School, Ft. Benning, GA.

Length: 8-15 weeks.

Exhibit Dates: 1/90-10/94.

Objectives: To train soldiers to serve as infantry squad members.

Instruction: Performance oriented hand-on training in Bradley fighting vehicle operation, TOE missile, communications, and weapons.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/85).

Related Occupations: 11M.

AR-2201-0277

IMPROVED TOE VEHICLE (ITV) TRAINER

Course Number: 2E-F57/010-ASIE9.

Location: Infantry School, Ft. Benning, GA.

Length: 3 weeks (120 hours).

Exhibit Dates: 1/90-9/90.

Objectives: To provide the student instruction on the tactical employment of the improved TOE Vehicle (ITV).

Instruction: Practical exercises, demonstration and conference/lectures, regarding all aspects of the improved TOE vehicle ITV.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/85).

AR-2201-0278

RESERVE OFFICER TRAINING COURSE (ROTC)
RANGER

Course Number: 011-F14.

Location: Infantry School, Ft. Benning, GA.

Length: 9 weeks (321 hours).

Exhibit Dates: 1/90-Present.

Objectives: To develop leadership skills in selected ROTC cadets.

Instruction: Lecture and practical exercises in parachuting, communication, reconnaissance, survival, weapons, first aid, simulated combat, physical conditioning, and marksmanship.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in physical education (9/85).

AR-2201-0279

HEAVY ANTIARMOR WEAPONS INFANTRYMAN
(Heavy Antiarmor Weapons Infantryman
Phase 1. Phase 2. Prior Service)

Course Number: 11H10-OSUT; 010-11H10; 11H10-E9-OSUT; 010-11H10-E9.

Location: Infantry School, Ft. Benning, GA.

Length: 5-13 weeks.

Exhibit Dates: 1/90-10/94.

Objectives: To prepare personnel for infantry units.

Instruction: Lecture, demonstration, and practical exercises in discipline, motivation and physical fitness.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (1/92).

Related Occupations: 11H.

AR-2201-0280

MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)
MECHANIC

Course Number: 042-ASIS8 (CT); 042-ASIS8.

Location: Field Artillery School, Ft. Sill, OK.

Length: 2 weeks (63-71 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train selected personnel to perform organizational maintenance on the missile launch rocket system.

Instruction: Lectures and demonstrations on preventive maintenance, service, and system troubleshooting.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (4/88).

AR-2201-0282

MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)
CREWMAN

Course Number: 042-13M10; 042-13M10-OSUT.

Location: Field Artillery School, Ft. Sill, OK.

Length: 6-7 weeks (222-250 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train enlisted personnel to perform the duties of a multiple launch rocket system crewman.

Instruction: Lectures and demonstrations in electronic communications, weapon systems, target acquisition, fire control system operations, supply procedures, and preventive maintenance checks and services. Fourteen week course includes basic training.

Credit Recommendation: In the vocational certificate category, 2 semester hours in map reading (10/91).

Related Occupations: 13M.

AR-2201-0284

NUCLEAR WARHEAD DETACHMENT

Course Number: 2E-F96/041-F8; 2E-FOA-F76.

Location: Field Artillery School, Ft. Sill, OK.

Length: 2-3 weeks (79-108 hours).

Exhibit Dates: 1/90-Present.

Objectives: To prepare selected commissioned officers to command nuclear warhead detachments.

Instruction: Lectures on the mission, duties, function, and responsibilities of nuclear warhead detachment personnel.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/90).

AR-2201-0285

WARRANT OFFICER CANDIDATE
(Warrant Officer Entry)

Course Number: 911-09W.

Location: Aviation School, Ft. Rucker, AL; Reserve Readiness Training Center, Ft. McCoy, WI.

Length: 4-7 weeks (217-223 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train warrant officer candidates in the common skills required for all warrant officers.

Instruction: Lectures, demonstrations, and practical exercises in leadership, ethics, professional development, communication skills, personnel management, military history, employment, and tactics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in leadership and supervision (4/87).

AR-2201-0288

PERSHING II MISSILE CREWMEMBER ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: 043-15E40.

Location: Field Artillery School, Ft. Sill, OK.

Length: 3-9 weeks (124-263 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train noncommissioned officers to be exporters of modern field tactics.

Instruction: This course is taught in two parts. The first part, the common core, is the Sergeant Major Academy's advanced noncommissioned officers course, and includes leadership, ethics, personnel management, doctrine and tactics. The second part provides instruction in utilization of weapons systems, inspection, testing and security of the Pershing II missile system; how to lead, evaluate, train, and apply management training techniques.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (6/89).

Related Occupations: 15E.

AR-2201-0289

MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)/
LANCE FIRE DIRECTION SUPERVISOR
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

Course Number: 250-15J40.

Location: Field Artillery School, Ft. Sill, OK.

Length: 8-9 weeks (297 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train the noncommissioned officer to be an exporter of modern battlefield tactics and on the technical and supervisory skills necessary to support the MLRS/Lance fire direction systems.

Instruction: Lectures and practical experiences in leadership, ethics, military doctrine and tactics, training and evaluating fire direction center soldiers, and the application of training management techniques.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (11/85).

Related Occupations: 15J.

AR-2201-0290

MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)/
LANCE ADVANCED NONCOMMISSIONED
OFFICER (NCO)

Course Number: 043-15D40.

Location: Field Artillery School, Ft. Sill, OK.

Length: 3-8 weeks (132-262 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train noncommissioned officers to be exporters of modern battlefield tactics in technical supervisory skills for the Lance and MRLS missile system.

Instruction: Lectures and practical exercises in leadership, ethics, personnel management, military doctrine and tactics; emplacement, inspection, testing and security of the multiple launch rocket system; techniques necessary to lead, evaluate and train Lance and MLRS system soldiers.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (10/88).

Related Occupations: 15D.

AR-2201-0291

PERSHING ELECTRONICS MATERIEL SPECIALIST
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

(Pershing II Electronics Materiel Specialist
Advanced Noncommissioned Officer
(NCO))

Course Number: 121-21G40.

Location: Field Artillery School, Ft. Sill, OK.

Length: 4-8 weeks (157-267 hours).

Exhibit Dates: 1/90-Present.

Objectives: To train missile section chiefs and noncommissioned officers in battlefield tactics, leadership, technical areas, and supervision.

Instruction: Lectures and demonstrations in leadership, ethics, personnel management, doctrine, tactics, inspections, maintenance, and testing of Pershing missile systems.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (6/89).

Related Occupations: 21G.

AR-2201-0292

FIELD ARTILLERY RADAR CREWMEMBER
NONCOMMISSIONED OFFICER (NCO)
ADVANCED

Course Number: 221-17B/13R40; 221-13R/17B40.

Location: Field Artillery School, Ft. Sill, OK.

Length: 5-7 weeks (185-248 hours).

Exhibit Dates: 1/90–Present.

Objectives: To train selected personnel in the technical and supervisory skills necessary to perform as a field artillery crewmember non-commissioned officer.

Instruction: Lectures and demonstrations in field artillery tactics, communications, electronics, weapons, and target acquisition.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (10/90).

Related Occupations: 13R; 17B.

AR-2201-0293

FIELD ARTILLERY SURVEYOR ADVANCED
NONCOMMISSIONED OFFICER (NCO)

(Field Artillery Surveyor Noncommissioned Officer (NCO) Advanced)

Course Number: 411-82C40.

Location: Field Artillery School, Ft. Sill, OK.

Length: 3-7 weeks (134-249 hours).

Exhibit Dates: 1/90–Present.

Objectives: To provide training to selected enlisted personnel in the technical and supervisory skills required to plan and supervise conventional survey operations.

Instruction: Lectures and practical exercise in training other soldiers in planning, field work, special survey techniques, organizational maintenance of survey equipment, vehicle maintenance, and supply procedures.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (1/92).

Related Occupations: 82C.

AR-2201-0294

PRIMARY LEADERSHIP DEVELOPMENT RESERVE
COMPONENT

Course Number: *Version 1:* PLDC-RC. *Version 2:* None.

Location: *Version 1:* National Guard Academies, US; Reserve Centers, US. *Version 2:* National Guard Academies, US; Reserve Schools, US.

Length: *Version 1:* 150 hours. *Version 2:* 123 hours.

Exhibit Dates: *Version 1:* 1/95–Present. *Version 2:* 1/90–12/94.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be provided with the skills and knowledge required to assume first line supervisors responsibilities, including the fundamentals and techniques of leadership, group behavior, and resource management in a military organization. *Version 2:* To provide the graduate with the skills and knowledge for assuming first line supervisors responsibilities including the fundamentals and techniques of leadership, group behavior, and resource management in a military organization.

Instruction: *Version 1:* The course combines lecture, small group participatory seminars, and practical application in the areas of leadership, communication, resource and training management, military studies, and professional skills. Subjects covered in the course include counseling, sexual harassment, team building, motivation, styles of leadership, and problem solving. *Version 2:* The course combines lecture, small group participatory seminars, and practical application in the areas of leadership, communication, resource and training

management, and military studies and professional skills in drill and ceremony, map reading/land navigation and combat operations for small units. Course is conducted over 15 some days, or on 4 weekends with an 8 day resident component.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of supervision and 1 in military science (6/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision and leadership (5/87).

AR-2201-0295

1. ADVANCED NONCOMMISSIONED OFFICER (NCO) COMMON LEADER, RESERVE, PHASE 1
2. ADVANCED COURSE FOR RESERVE COMPONENT NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 400-ANCOC-RC. *Version 2:* None.

Location: National Guard Academies, US.

Length: *Version 1:* 1 weekend a month for 6 consecutive months or, 2 weeks (83 hours). *Version 2:* 60 hours.

Exhibit Dates: *Version 1:* 10/94–Present. *Version 2:* 1/90–9/94.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to provide mid-level supervision and leadership at the operational level in units of up to 50 personnel. *Version 2:* To develop leadership and supervision skills and techniques to be implemented at the operational level.

Instruction: *Version 1:* Topics include development of mid-level skills in training and motivation of personnel; logistics and materiel management; building morale; effective supervision of personnel; high quality written and oral communications; implementation of appropriate listening skills; and mid-level leadership. *Version 2:* Lectures and practical exercises in the areas of personnel management, communication, supervision, leadership, logistics, material management, and topography. The course may be offered in 8 or 9 days or over several weekends.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in military science and 1 in fundamentals of communications (6/95). *Version 2:* In the lower-division baccalaureate/associate degree category, for those students completing the Primary Leadership Development Course Reserve Component (AR-2201-0294), 1 semester hour in leadership and supervision; for all other students, 2 in leadership and supervision (8/86).

AR-2201-0296

SENIOR COURSE FOR RESERVE COMPONENT
NONCOMMISSIONED OFFICER (NCO)

Course Number: None.

Location: National Guard Academies, US.

Length: 50 hours.

Exhibit Dates: 1/90–Present.

Objectives: To develop leadership skills and techniques at the upper operational levels.

Instruction: Lectures and practical exercises in areas of small group study, training, effective writing, public speaking, counseling, and maintenance management. Course is conducted over 8 days or 4 weekends.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, for those students completing the Advanced Course for Reserve Noncommissioned Officer (NCO) (AR-2201-0295), 1 semester hour in group dynamics and training; for all other students, 2 semester hours in group dynamics and training (8/86).

AR-2201-0299

1. FIRST SERGEANT FOR RESERVE COMPONENTS
2. FIRST SERGEANT COURSE FOR RESERVE COMPONENT

Course Number: *Version 1:* 400-SQIM. *Version 2:* None.

Location: *Version 1:* Sergeants Major Academy, Ft. Bliss, TX. *Version 2:* National Guard Academies, US.

Length: *Version 1:* Phase 2, in residence, 2 weeks (110 hours). *Version 2:* 80 hours.

Exhibit Dates: *Version 1:* 10/95–Present. *Version 2:* 1/90–9/95.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to supervise units of up to 200 personnel. *Version 2:* To teach students to understand and develop skills in administrative procedures and processes.

Instruction: *Version 1:* Includes lectures, seminars, demonstrations, and performance exercises in safety, stress management, diversity, substance abuse, maintenance and control of equipment, motivation, leadership skills, and computer and verbal skill. *Version 2:* Through lectures, practical exercises, seminars and problem solving the student will develop skills and knowledge in administering records, organizational processes and organizational procedures.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in material management and 2 in fundamentals of communication (10/95); in the upper-division baccalaureate category, 1 semester hour in human resources management (10/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in administrative procedures and processes (8/86).

AR-2201-0300

NATIONAL GUARD OFFICER CANDIDATE

Course Number: None.

Location: National Guard Academies, US.

Length: (265-272 hours).

Exhibit Dates: 1/90–3/96.

Objectives: Upon completion of the course, the student will understand the role and develop the skills for leadership and management in widely varied situations including training, motivation, counseling, discipline, and appraising personnel, managing and maintaining systems, and planning, organizing and directing organization processes and procedures. The student will demonstrate an ability to read and interpret complex maps and to make accurate navigational calculations and to translate from two to three dimensions accurately.

Instruction: Topics in human resources management, leadership, writing, records, maintenance, training, direction, and motivation utilizing readings. Lectures, discussions, exercises, and evaluation by tests and performance. There are two 15 day components plus twelve months of two day sessions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in leadership and management and 2 in geography/topography (8/86).

AR-2201-0301

LIGHT AIR DEFENSE ARTILLERY (ADA) CREWMAN

Course Number: 16F10-OSUT.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 14 weeks (186 hours).

Exhibit Dates: 1/90-6/94.

Objectives: To provide National Guard enlisted personnel with the skills necessary to perform as light air defense artillery crewmen.

Instruction: Course includes training in basic soldier skills, 40mm gun operation, tracked vehicle operation, and firing.

Credit Recommendation: In the vocational certificate category, 1 semester hour in first aid (11/86).

Related Occupations: 16F.

AR-2201-0303

CADET MILITARY SECONDARY TRAINING/ROTC

Course Number: 2C-F34.

Location: Aviation Center, Ft. Rucker, AL.

Length: 4 weeks (124 hours).

Exhibit Dates: 1/90-2/90.

Objectives: To introduce U.S. military academy/ROTC cadets to the operation and uses of rotary-wing aircraft in a military environment.

Instruction: Topics include TH-55 helicopter maintenance, aerodynamics, tactical subjects, aeromedical subjects, and flight training.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in basic aerodynamics and theory of flight and 3 in basic helicopter flight and systems (11/86).

AR-2201-0306

SIGNAL OFFICER ADVANCED RESERVE COMPONENT

Course Number: 4-11-C26-RC.

Location: Signal School, Ft. Gordon, GA.

Length: Resident phase, 12 weeks (432-442 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will have the knowledge to be assigned a signal command position at company, battalion, brigade, or division/corps level.

Instruction: Includes instruction in combined arms, battle doctrine, communication planning, technical characteristics of various tactical radio and wire equipment, review of basic electricity, electromagnetic propagation, and procedures necessary for secure communication.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (2/94).

AR-2201-0307

SIGNAL OFFICER BASIC RESERVE COMPONENTS

Course Number: 4-11-C25-RC

Location: Signal School, Ft. Gordon, GA.

Length: Resident phase, 8 weeks (293 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to demonstrate a basic knowledge of communications

systems in use by tactical units of the signal corps. Student will have the knowledge to manage and command personnel and a tactical communication center.

Instruction: Lectures and hands-on experience with the various tactical wire and radio communications systems. Lectures on combat communications concepts, doctrine, and procedures used in tactical communications systems. The resident phase, only, was evaluated.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in fundamentals of communications systems (6/90).

AR-2201-0308

ARTILLERY REPAIRER

Course Number: 642-45L10.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 13-14 weeks (491 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform general support maintenance on towed and self-propelled artillery.

Instruction: Instruction includes lectures, demonstration and practical exercises in the use and care of handtools and hardware, basic hydraulic principles, electrical fundamentals and the maintenance and troubleshooting of artillery weapons systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity (10/88).

Related Occupations: 45L.

AR-2201-0309

TOWED ARTILLERY REPAIRMAN (USMC)

(Self-Propelled Artillery System Technician)
(Artillery Repairer)

Course Number: 642-3121 (45L); 642-2143 (45L); 641-2131.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 6-13 weeks (240-468 hours).

Exhibit Dates: 1/90-2/96.

Learning Outcomes: Upon completion of the course, the student will be able to perform general support maintenance on towed and self-propelled artillery.

Instruction: Instruction includes lectures, demonstration and practical exercises in the use and care of handtools and hardware, basic hydraulic principles, electrical fundamentals and the maintenance and troubleshooting of artillery weapons systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity (10/88).

Related Occupations: 45L.

AR-2201-0310

LIGHT WEAPONS INFANTRYMAN

(Light Weapons Infantryman Phase 1, Phase 2, Prior Service)

Course Number: 11B10-OSUT; 010-11B10; 11B10-C2-OSUT; 010-11B10-C2.

Location: Infantry School, Ft. Benning, GA.

Length: 5-13 weeks.

Exhibit Dates: 1/90-10/94.

Objectives: To prepare personnel for infantry units.

Instruction: Lecture, demonstration, and practical exercises in discipline, motivation and physical fitness.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/85).

Related Occupations: 11B.

AR-2201-0311

INDIRECT FIRE INFANTRYMAN

(Indirect Fire Infantryman Phase 1, Phase 2, Prior Service)

Course Number: 11C10-OSUT; 010-11C10.

Location: Infantry School, Ft. Benning, GA.

Length: 5-13 weeks.

Exhibit Dates: 1/90-10/94.

Objectives: To prepare personnel for infantry units.

Instruction: Lecture, demonstration, and practical exercises in discipline, motivation and physical fitness.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (1/92).

Related Occupations: 11C.

AR-2201-0312

BASIC NONCOMMISSIONED OFFICER (NCO) 16T
TRACK

Course Number: 043-11-16T30.

Location: NCO Academy, Ft. Bliss, TX.

Length: 5 weeks (200-209 hours).

Exhibit Dates: 1/90-6/94.

Learning Outcomes: Upon completion of the course, students will be able to lead, train, and direct subordinates to maintain, operate, and employ weapons and equipment.

Instruction: Training is in leadership; maintenance; tactics; communications; land navigation; weapons; nuclear, biological, and chemical (NBC); and training management.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (3/89).

Related Occupations: 16T.

AR-2201-0313

ELECTRONIC WARFARE (EW) ANALYST

Course Number: *Version 1:* 232-F8. *Version 2:* 232-F8.

Location: *Version 1:* Intelligence Center and School, Ft. Huachuca, AZ. *Version 2:* Intelligence School, Ft. Devens, MA.

Length: *Version 1:* 7 weeks (252-253 hours). *Version 2:* 7-9 weeks (293-357 hours).

Exhibit Dates: *Version 1:* 10/92-Present. *Version 2:* 1/90-9/92.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to isolate, identify, and report tactical signal intelligence, develop data bases, utilize tactical communications equipment and vehicles in support of tactical operations and procedures, and operate a microfix computer. *Version 2:* Upon completion of the course, the student will be able to isolate, identify, and report tactical signal intelligence, develop data bases, utilize tactical communications equipment and vehicles in support of tactical operations and procedures, and operate a microfix computer.

Instruction: *Version 1:* Lectures, demonstrations, and performance exercises in report writing, radio communications, data base development, operation and maintenance of tactical communication equipment and vehicles, and operation of the microfix computer. *Version 2:* Lectures, demonstrations, and performance exercises in report writing, radio communications, data base development, operation and maintenance of tactical communication equipment and vehicles, and operation of the microfix computer.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* Credit is not recommended because of the military-specific nature of the course (6/89).

AR-2201-0315

PRE-COMMAND PHASE 3, SYSTEMS PROFICIENCY

Course Number: 3B-F11.

Location: Intelligence School, Ft. Devens, MA.

Length: 1 week (45 hours).

Exhibit Dates: 1/90-12/90.

Learning Outcomes: Upon completion of the course, the student will be proficient in EW/SIGINT collection and processing systems.

Instruction: Instruction includes orientation to basic electronic warfare topics and to missions and procedures of strategic sites of tactical commands.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (5/87).

AR-2201-0316

ELECTRONIC WARFARE (EW)/SIGNALS

INTELLIGENCE (SIGINT) EMITTER

LOCATOR/IDENTIFIER BASIC

NONCOMMISSIONED OFFICER (NCO)

Course Number: 231-05D30.

Location: Security School, Ft. Devens, MA; Intelligence School, Ft. Devens, MA.

Length: 7-8 weeks (266-267 hours).

Exhibit Dates: 1/90-12/90.

Learning Outcomes: Upon completion of the course, the student will assume the position of squad leader; select an operational direction finding (DF) site; determine operational logistical requirements to deploy to the site; establish and maintain an advanced technique identification (ATI) library; provide quality control regarding data and records.

Instruction: Instruction includes classroom lectures and practical exercises in leadership training, direction finding, deployment techniques, quality control of records and reports, and establishing and maintaining library systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel management. See AR-1406-0090 for common core credit (7/91).

Related Occupations: 05D.

AR-2201-0317

EMITTER IDENTIFICATION TECHNIQUES

(Advanced Identification Techniques Analyst)

Course Number: 231-F29; 231-F7.

Location: Intelligence Center and School, Ft. Huachuca, AZ; Intelligence School, Ft. Devens, MA.

Length: 3-4 weeks (107-120 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be proficient in advanced identification techniques, will be able to calibrate and operate specific equipment, and will be proficient in analysis techniques, records, and reports.

Instruction: Lectures, audio-visual presentations, demonstrations, and performance exercises in the calibration and operation of specific equipment, in analysis, recording, and reporting signals.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (2/96).

AR-2201-0318

ORDNANCE PRE-COMMAND

Course Number: 2G-F44.

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 2 weeks (72 hours).

Exhibit Dates: 1/90-9/90.

Learning Outcomes: Upon completion of the course, the student will be able to assume battalion and brigade level commands.

Instruction: Instruction includes a series of lectures, demonstrations, and practical exercises of short term duration on appropriate military topics to aid the ordnance officer in preparation to assume command of a military unit.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (3/87).

AR-2201-0320

SELF-PROPELLED FIELD ARTILLERY SYSTEM

MECHANIC NONCOMMISSIONED OFFICER

(NCO) ADVANCED

(Mechanical Maintenance Noncommissioned Officer (NCO) Advanced, MOS 63B, D, E, N, T)

Course Number: 611-63D40; 6-63-C42 (63B, D, E, N, T).

Location: Ordnance Center and School, Aberdeen Proving Ground, MD.

Length: 8-10 weeks (295-445 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to apply the skills and technical knowledge and serve as a supervisor in the selected military occupational specialty (MOS) for which trained.

Instruction: Lectures, demonstrations, and practical exercises in leadership, communication skills, fundamentals of instruction, logistics management, and refresher training in the appropriate military occupational specialty (MOS). Emphasis in on leadership and on verbal and written communication.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (1/88).

Related Occupations: 63B; 63D; 63E; 63N; 63T.

AR-2201-0321

ARMOR OFFICER ADVANCED RESERVE COMPONENT

Course Number: 2-17-C26.

Location: Armor Center, Ft. Knox, KY.

Length: 12-13 weeks (465-504 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform management skills at the supervisory and management position levels.

Instruction: Instruction includes lectures and practical exercises in military science, organizational support and functions, leadership, communication skills, maintenance and inspection procedures and logistics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in communication skills (10/89); in the upper-division baccalaureate category, 2 semester hours in management systems, 3 in business management, and 2 in military science (10/89).

AR-2201-0325

BASIC NONCOMMISSIONED OFFICER (NCO)

M60A1/M60A3 19K M1 ABRAMS

Course Number: 020-1-19E30/19K30; 020-1-19K30-M1; 020-1-19E30-A3; 020-4-19E30-A3; 020-6-19E30-A1; 020-7-19E30-A3; 020-9-19K30-M1; 020-9-19E30-A1; 020-10-19E30-A3; 020-18-19K30-M1; 020-18-19E30-A3.

Location: Armor School, Ft. Stewart, GA; Armor School, Ft. Polk, LA; Armor School, Ft. Riley, KS; Armor School, Ft. Hood, TX; Armor School, Ft. Carson, CO; Armor School, USAREUR; Armor Center and School, Ft. Knox, KY.

Length: 6 weeks (312-314 hours).

Exhibit Dates: 1/90-5/91.

Learning Outcomes: Upon completion of the course, the student will be able to train, direct, and lead personnel in the maintenance, operation, and employment of specialized equipment.

Instruction: Course includes lectures and training in leadership, maintenance, tactics, communications, land navigation, and training management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel management, 4 in military science, and 2 in basic surveying (7/87).

Related Occupations: 19E; 19K.

AR-2201-0326

BRADLEY FIGHTING VEHICLE SYSTEM

ORGANIZATIONAL MAINTENANCE

Course Number: 611-ASID3 (63T).

Location: Armor Center, Ft. Knox, KY.

Length: 2-3 weeks (92 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform minor adjustments and repairs on the Bradley Fighting vehicle.

Instruction: Instruction includes lectures and practical exercises in repairs and adjustments of the engine, steering, braking, cooling, and lubrication systems of the Bradley Fighting vehicle.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (7/87).

AR-2201-0328

M1/M1A1 ABRAMS MASTER GUNNER

Course Number: 020-ASIA8.

Location: Armor Center, Ft. Knox, KY.

Length: 11 weeks (387-397 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to assist commanders in planning and implementation of tank gunnery training programs.

Instruction: The instruction includes lectures and practical exercises in tank weaponry systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/90).

AR-2201-0329

1. M1/M1A1 ABRAMS MASTER GUNNER

TRANSITION

2. M1/M1A1 MASTER GUNNER TRANSITION

Course Number: *Version 1:* 020-ASIA8. *Version 2:* 020-ASIA8-T.

Location: Armor Center, Ft. Knox, KY.

Length: *Version 1:* 4-5 weeks (156 hours). *Version 2:* 4-5 weeks.

Exhibit Dates: *Version 1:* 10/94–Present. *Version 2:* 1/90–9/94.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to perform the duties of a M1/M1A1 tank master gunner. This version is pending evaluation. *Version 2:* Upon completion of the course, the student will be able to perform the duties of a M1/M1A1 tank master gunner.

Instruction: *Version 1:* Instruction includes lectures and practical exercises in the differences between the M60A/A3 and the M1/M1A1 tank weapons systems. This version is pending evaluation. *Version 2:* Instruction includes lectures and practical exercises in the differences between the M60A/A3 and the M1/M1A1 tank weapons systems.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* Credit is not recommended because of the military-specific nature of the course (10/88).

AR-2201-0330

M1/M1A1 ABRAMS ARMOR CREWMAN

Course Number: 19K10-OSUT.

Location: Armor Center, Ft. Knox, KY.

Length: 14-15 weeks (562-619 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the duties as an armor crewman.

Instruction: The instruction includes lectures and practical exercises in basic training courses and skills required of a tank crewman including such courses as weapons training land navigation, first aid, physical conditioning, tank field exercises, and basic military subjects.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in military science (1/96).

Related Occupations: 19K.

AR-2201-0331

M3 BRADLEY/CFV CAVALRY SCOUT

Course Number: 19D10-OSUT (M3).

Location: Armor Center, Ft. Knox, KY.

Length: 14-16 weeks (666-792 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform

the duties as an armored reconnaissance vehicle crewman.

Instruction: Instruction includes lectures and practical exercises in basic training courses and the skills required of an armored reconnaissance vehicle crewman including such course as weapons training, land navigation, first aid, physical conditioning, vehicle field exercises and basic military subjects.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in military science (1/96).

Related Occupations: 19D.

AR-2201-0332

M113 CAVALRY SCOUT

Course Number: 19D10-OSUT (M113).

Location: Armor Center, Ft. Knox, KY.

Length: 13-14 weeks (561-607 hours).

Exhibit Dates: 1/90–10/95.

Learning Outcomes: Upon completion of the course, the student will be able to perform the duties as an armored reconnaissance vehicle crewman.

Instruction: Instruction includes lectures and practical exercises in basic training courses and the skills required of an armored reconnaissance vehicle crewman including such courses as weapons training, land navigation, first aid, physical conditioning, vehicle field exercises and basic military subjects.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in military science (11/88).

Related Occupations: 19D.

AR-2201-0333

M60A3 ARMOR CREWMAN

Course Number: 19E10-OSUT (M60A3).

Location: Armor Center, Ft. Knox, KY.

Length: 14-15 weeks (588-690 hours).

Exhibit Dates: 1/90–10/95.

Learning Outcomes: Upon completion of the course, the student will be able to perform the duties as an armor crewmember.

Instruction: The instruction includes lectures and practical exercises in basic training subjects and skills required of a tank crewman, including such topics as weapons training, land navigation, first aid, physical conditioning, tank field exercises and basic military subjects.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in military science (11/88).

Related Occupations: 19E.

AR-2201-0334

MASTER GUNNER M60A1

Course Number: 020-ASIC5 (M60A1).

Location: Armor Center, Ft. Knox, KY.

Length: 11 weeks.

Exhibit Dates: 1/90–1/90.

Learning Outcomes: Upon completion of the course, the student will be able to assist commanders in the planning and implementation of the gunnery training programs.

Instruction: Instruction includes lectures and practical exercises in tank weapon systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (7/87).

AR-2201-0336

MASTER GUNNER M60A3 TRANSITION

Course Number: 020-ASID8.

Location: Armor Center, Ft. Knox, KY.

Length: 2 weeks (66-72 hours).

Exhibit Dates: 1/90–10/91.

Learning Outcomes: Upon completion of the course, the student will be able to perform duties as a M60A3 tank master gunner.

Instruction: Instruction includes lectures and practical exercises in the differences between the M60A1 and M60A3 tank weapons systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/88).

AR-2201-0337

1. BASIC NONCOMMISSIONED OFFICER (NCO)

COMMON LEADER RESERVE TRAINING

2. BASIC NONCOMMISSIONED OFFICER (NCO)

RESERVE COMPONENT PHASE I COMMON

LEADER TRAINING

Course Number: *Version 1:* 400-BNCOC-RC. *Version 2:* None.

Location: *Version 1:* Training Centers, US and Overseas. *Version 2:* Training Centers, US.

Length: *Version 1:* 1 weekend a month for 6 consecutive months or, 2 weeks (85 hours). *Version 2:* 6 days or three weekends, 1 week.

Exhibit Dates: *Version 1:* 10/94–Present. *Version 2:* 1/90–9/94.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to provide entry-level leadership to a group of up to 12 subordinates, training these individuals to successfully perform their jobs in the current operating environment; to instill proper behavior habits in subordinates; to supervise organizational maintenance activities and property accountability; and to employ the systems approach to personnel training. *Version 2:* Upon completion of the course, the student will be able to provide lower-level leadership to units of up to 35 personnel.

Instruction: *Version 1:* Topics include entry-level leadership skills; personal and performance counseling; training techniques; basic management skills; and introductory resource management skills. *Version 2:* Includes lectures, demonstrations, and performance exercises in supervision, training and counseling.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 2 semester hours in supervision or leadership (6/95). *Version 2:* In the lower-division baccalaureate/associate degree category, 1 semester hour in leadership (2/92).

AR-2201-0338

ADVANCED NONCOMMISSIONED OFFICER (NCO)

RESERVE COMPONENT

Course Number: None.

Location: Training Centers, US.

Length: And 6 weekends, 2 weeks.

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide middle-level supervision and leadership in units up to 400 persons.

Instruction: Includes lectures, demonstrations, and performance exercises in motivation, training, morale, supervision, effective writing, verbal communications, and listening skills.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in leadership and 1 in fundamentals of communication (2/92).

AR-2201-0339

DRILL SERGEANT

Course Number: 012-F4.

Location: Training Center, Ft. Benning, GA; Training Center, Ft. Dix, NJ; Training Center, Ft. Jackson, SC; Training Center, Ft. Leonard Wood, MO; Training Center, Ft. McClellan, AL; Training Center, Ft. Sill, OK; Training Center, Ft. Knox, KY.

Length: 9 weeks (318-319 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise, train, motivate and evaluate basic trainees.

Instruction: Includes lectures, demonstrations and performance exercises in personal counseling, individual human behavior, interviewing, interpersonal communication, diet and nutrition, personal health and fitness, physical training techniques, weapon proficiency and safety, instructional techniques and training aids.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in counseling, 1 in physical fitness, and 1 in marksmanship (9/87); in the upper-division baccalaureate category, 1 semester hour in principles of teaching (9/87).

AR-2201-0340

WATERCRAFT OPERATOR BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 062-88K30. *Version 2:* 062-88K30. *Version 3:* 062-88K30.

Location: Transportation School, Ft. Eustis, VA.

Length: *Version 1:* 9-10 weeks (307 hours). *Version 2:* 8 weeks (302 hours). *Version 3:* 6-7 weeks (192 hours).

Exhibit Dates: *Version 1:* 10/91–Present. *Version 2:* 10/90–9/91. *Version 3:* 1/90–9/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to effectively supervise personnel in watercraft operation in such areas as navigation, ship rigging, cargo handling, damage control, shipboard firefighting, vessel operation and marlinspike seamanship. The student will be able to successfully complete the Marine Certification Examination. *Version 2:* Upon completion of the course, the student will be able to effectively supervise personnel in watercraft operation in such areas as navigation, ship rigging, cargo handling, damage control, shipboard firefighting, vessel operation and marlinspike seamanship. The student will be able to successfully complete the Marine Certification Examination. *Version 3:* Upon completion of the course, the student will be able to effectively supervise personnel in watercraft operation in such areas as navigation, ship rigging, cargo handling, damage control, shipboard firefighting, vessel operation and marlinspike seamanship. The student will be able to successfully complete the Marine Certification Examination.

Instruction: *Version 1:* Includes lectures, demonstrations and practical exercises in leadership skills, marine deck operations, quartermaster and deck operations, navigation and

marine regulations. *Version 2:* Includes lectures, demonstrations and practical exercises in leadership skills, marine deck operations, quartermaster and deck operations, navigation and marine regulations. *Version 3:* Includes lectures, demonstrations and practical exercises in leadership skills, marine deck operations, quartermaster and deck operations, navigation and marine regulations.

Credit Recommendation: *Version 1:* In the lower-division baccalaureate/associate degree category, 1 semester hour in seamanship and 2 in land navigation. See AR-1406-0090 for common core credit (3/94). *Version 2:* In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of supervision. See AR-1406-0090 for common core credit (6/90); in the upper-division baccalaureate category, 2 semester hours for field experience in management (6/90). *Version 3:* In the lower-division baccalaureate/associate degree category, 3 semester hours in seamanship and 1 in harborcraft operation (3/88).

Related Occupations: 88K.

AR-2201-0341

SMALL ARMS MAINTENANCE FOR UNIT ARMORERS

Course Number: SAM 31.

Location: Combined Arms Training Center, Vilseck, W. Germany.

Length: 2 weeks (68-74 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to establish a small arms room which meets security requirements; identify those technical publications for regulations and procedures appropriate for security and maintenance of an arms room; determine proper inventory, accounting, and issue/turn-in procedures for weapons; initiate a preventive maintenance schedule; provide preventive maintenance for all weapons stored in the arms room.

Instruction: Conference, classes, and practical exercises relating to security regulations, small arms maintenance, and accountability of weapons located within the arms room. Special emphasis is given to the disassembly, cleaning, troubleshooting, and safety testing of all weapons.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/88).

AR-2201-0342

AIR DEFENSE ARTILLERY (ADA) OFFICER BASIC

Course Number: 2-44-C20.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 10 weeks (365 hours).

Exhibit Dates: 1/90–9/90.

Learning Outcomes: Upon completion of the course, the student will be able to perform duties of an officer in the areas of leadership, management, logistics and personnel administration.

Instruction: Lectures and practical exercises in the basics of air defense artillery, map reading, leadership, logistics management, tactics, communications, and military writing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision and 2 in supply management (12/88).

AR-2201-0343

CIVIL-MILITARY OPERATIONS

Course Number: 4N-481/500-F3

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 2 weeks (70-71 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will handle civil-military operations in the field, dealing with civil affairs and psychological operations; be aware of public health considerations, and implement procedures for dealing with refugees and dislocated civilians.

Instruction: Lectures, seminars, and oral presentations on civil-military operations, psychological operations, several aspects of civil affairs, and cross-cultural communications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in public administration (12/92).

AR-2201-0344

MILITARY FREEFALL JUMPMAS-TER

(Special Forces Military Freefall Jumpmaster)

Course Number: 2E-F56/011-F15.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 3 weeks (143-153 hours).

Exhibit Dates: 1/90–Present.

Objectives: Upon completion of the course, the student will be able to use altimeters, automatic ripcord release devices and canopy control; demonstrate emergency procedures; calculate wind drift; demonstrate proper spotting techniques; supervise packing and rigging; and plan procedures for day and night jumps.

Instruction: Basic principles in the execution of skills and techniques involved in free fall parachuting through lectures, discussions, and actual engagement in activity.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in parachuting/skydiving (3/93).

AR-2201-0345

MILITARY FREEFALL PARACHUTIST

(Special Forces Military Freefall Parachutist)

Course Number: 2E-SI4X/ASI4X/011-ASTW8.

Location: Shaw AFB, SC; Wright-Patterson AFB, OH; John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 5-6 weeks (243-257 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to complete free-fall parachute jumps from selected altitudes and under selected conditions.

Instruction: Each successful candidate completes at least 200 hours of laboratory-based, skill acquisition activity in free-fall parachuting. Starting in January 1991 Phase I was 3 weeks in length (158 hours), Phase II was 2-3 weeks in length (100 hours).

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in parachuting/skydiving (10/93).

AR-2201-0346

SPECIAL FORCES DETACHMENT OFFICER

Course Number: 2E-18A.**Location:** John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.**Length:** 23-24 weeks (1560-1690 hours).**Exhibit Dates:** 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to determine, by use of aerial photographs and maps, locations, elevations, desirable routes of travel and location of specific points; practice proper procedures for small boat operation; navigate to designated points; prepare military orders; practice survival techniques; practice proper climbing procedures; understand psychological warfare operations; practice proper cultural interaction with selected populated areas; conduct orienteering over large areas; use special photographic equipment; specify and use explosive devices for specific targets; understand mortars and small arms; plan estuarine and ocean landing procedures as well as inshore navigation.

Instruction: Lectures and exercises in the use of aerial photographs and maps, small boat handling, air-ground operations, intelligence gathering, climbing, cultural differences and practices, use of explosives, mortars and small arms, radio and written message procedures, and navigation and landing procedures.

Credit Recommendation: In the vocational certificate category, 1 semester hour in explosive techniques (12/92); in the lower-division baccalaureate/associate degree category, 1 semester hour in orienteering (12/92).

AR-2201-0347

SPECIAL FORCES DETACHMENT OFFICER

QUALIFICATION RESERVE COMPONENT
PHASE 4**Course Number:** 2E-18A-RC.**Location:** John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.**Length:** 3 weeks (184 hours).**Exhibit Dates:** 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will demonstrate skills in the areas of weapons, engineering, communications, medicine, and training management.

Instruction: Lectures, demonstrations, written and performance exercises required for duty in operations detachments.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/88).

AR-2201-0348SPECIAL OPERATIONS WEAPONS SERGEANT
RESERVE COMPONENT PHASE 4**Course Number:** 011-18B30-RC.**Location:** John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.**Length:** 3 weeks (156 hours).**Exhibit Dates:** 1/90-9/91.

Learning Outcomes: Upon completion of the course, the student will be able to install, plot firing patterns, and operate mortars; and understand and operate small arms and antitank weapons.

Instruction: Instruction includes lectures and exercises in mortars, fire control, selected U.S. and foreign small arms and antitank weapons.

Credit Recommendation: Credit is not recommended because of the military specific nature of the course (12/88).

Related Occupations: 18B.**AR-2201-0349**

SPECIAL OPERATIONS TARGET INTERDICTION

Course Number: 2E-F67/011-F19.**Location:** John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.**Length:** 6 weeks (274-288 hours).**Exhibit Dates:** 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to demonstrate advanced rifle marksmanship, target selection, and stalking and interdiction techniques.

Instruction: Lectures, demonstrations, and field experience are used to develop marksmanship skills.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in marksmanship/riflery (10/90).

AR-2201-0350

SPECIAL FORCES WEAPONS SERGEANT

(Special Operations Weapons Sergeant)

Course Number: *Version 1:* 011-18B30.
Version 2: 011-18B30.**Location:** John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.**Length:** *Version 1:* 23-24 weeks (1387-1572 hours). *Version 2:* 23-24 weeks (1387-1572 hours).**Exhibit Dates:** *Version 1:* 10/91-Present.
Version 2: 1/90-9/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to determine, by use of aerial photographs and maps, distances, elevations, desirable routes, and location of specific points; practice proper techniques for small boat operation; navigate to designated points; prepare proper military orders; practice survival techniques; plan air drop-zone operations; practice proper procedures for acquisition of intelligence data; direct and fire selected field mortars, small arms, and antitank weapons; and select proper offensive weapons for Special Forces operations. *Version 2:* Upon completion of the course, the student will be able to determine, by use of aerial photographs and maps, distances, elevations, desirable routes, and location of specific points; practice proper techniques for small boat operation; navigate to designated points; prepare proper military orders; practice survival techniques; plan air drop-zone operations; practice proper procedures for acquisition of intelligence data; direct and fire selected field mortars, small arms, and antitank weapons; and select proper offensive weapons for Special Forces operations.

Instruction: *Version 1:* Instruction includes lectures and exercises in the use of aerial photographs, military maps, and associated orienteering equipment; navigation and the use of small boats; survival techniques; air-ground operations; and weapon selection. *Version 2:* Instruction includes lectures and exercises in the use of aerial photographs, military maps, and associated orienteering equipment; navigation and the use of small boats; survival techniques; air-ground operations; and weapon selection.

Credit Recommendation: *Version 1:* In the vocational certificate category, 1 semester hour in explosive techniques (12/93); in the lower-division baccalaureate/associate degree category, 1 semester hour in survival skills, 1 in orienteering, 1 in water safety, and 1 in physical training. See AR-1406-0090 for common core credit (12/93). *Version 2:* In the vocational certificate category, 1 semester hour in explosive techniques (12/93); in the lower-division baccalaureate/associate degree category, 1 semester hour in orienteering, 1 in water safety, and 1 in physical training. See AR-1406-0090 for common core credit (12/93).

Related Occupations: 18B.**AR-2201-0352**MILITARY ENLISTMENT PROCESSING STATION
(MEPS) GUIDANCE COUNSELOR
NATIONAL GUARD (ARNG)**Course Number:** 501-ASIV7-ARNG.**Location:** Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR; Soldier Support Institute, Ft. Benjamin Harrison, IN.**Length:** 1-2 weeks (46-75 hours).**Exhibit Dates:** 1/90-Present.

Objectives: Upon completion of the course, the student will be able to function as a career guidance counselor for Army National Guard personnel.

Instruction: Lectures and classroom instruction on enlistment programs, eligibility requirements, and duties and responsibilities of a guidance counselor.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (12/91).

AR-2201-0356RESERVE RETENTION NONCOMMISSIONED OFFICER
(NCO) ADVANCED**Course Number:** 501-F8.**Location:** Recruiting and Retention School, Soldier Support Institute, Ft. Benjamin Harrison, IN.**Length:** 2 weeks (74 hours).**Exhibit Dates:** 1/90-12/91.

Learning Outcomes: Upon completion of the course, the student will be able to manage the retention function in an Army reserve unit; train subordinate noncommissioned officers in all aspects of the Army reserve retention program; and evaluate some features of an established retention program.

Instruction: Presentation includes classroom instruction and practical exercises in training and evaluation techniques related to an existing retention program.

Credit Recommendation: Credit is not recommended as the topics included are military-specific and lack depth (12/88).

AR-2201-0357ARMY RESERVE RETENTION NONCOMMISSIONED
OFFICER (NCO)**Course Number:** 501-79D30-RC.**Location:** Reserve Readiness Training Center, Ft. McCoy, WI; Recruiting and Retention School, Soldier Support Institute, Ft. Benjamin Harrison, IN.**Length:** 2 weeks (72-74 hours).**Exhibit Dates:** 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to function as the retention noncommissioned officer in an Army Reserve unit with a good working knowledge of the Army's retention program.

Instruction: Includes classroom instruction and practical exercises in retention techniques, publicity efforts, interview skills, career development counseling and other topics related to retention programs for military personnel.

Credit Recommendation: Credit is not recommended due to the military-specific nature of the course content (12/91).

Related Occupations: 79D.

AR-2201-0359

MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)/
LANCE FIRE DIRECTION SUPERVISOR
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

Course Number: *Version 1:* 043-13P40.
Version 2: 043-13P40.

Location: Field Artillery School, Ft. Sill, OK.

Length: *Version 1:* 4-6 weeks (154-244 hours). *Version 2:* 4-6 weeks (154-244 hours).

Exhibit Dates: *Version 1:* 10/90–Present.
Version 2: 1/90–9/90.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to lead, evaluate and train Lance missile fire direction center soldiers. This includes gunnery techniques, fire direction, management, and control. *Version 2:* Upon completion of the course, the student will be able to lead, evaluate and train Lance missile fire direction center soldiers. This includes gunnery techniques, fire direction, management, and control.

Instruction: *Version 1:* Lecture and group discussion on leadership, ethics, personnel management, doctrine, and tactics. *Version 2:* Lecture and group discussion on leadership, ethics, personnel management, doctrine, and tactics.

Credit Recommendation: *Version 1:* Credit is recommended for the common core only. See AR-2201-0295 (1/92). *Version 2:* Credit is recommended for the common core only. See AR-1404-0035 (6/89).

AR-2201-0360

LANCE CREWMEMBER ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: 042-13N40; 042-15D40.

Location: Field Artillery School, Ft. Sill, OK.

Length: 4-5 weeks (143-189 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform tasks required of a firing platoon sergeant or an assembly and transport platoon sergeant in a Lance battalion.

Instruction: Lectures and practical exercises in leadership, ethics, personnel management, tactics, maintenance management, Lance technical training and maintenance of system specific forms and records.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (5/92).

Related Occupations: 13N; 15D.

AR-2201-0362

CANNON CREWMEMBER BASIC NONCOMMISSIONED
OFFICER (NCO)
(Field Artillery Cannon Basic Noncommissioned Officer (NCO))

Course Number: 041-8-13B30; 041-2-13B30; 041-5-13B30; 041-7-13B30; 041-9-13B30; 041-10-13B30; 041-12-13B30; 041-13-13B30; 041-14-13B30; 041-15-13B30; 041-18-13B30; 041-4-14B30.

Location: Field Artillery School, Ft. Sill, OK; NCO Academy, Ft. Bragg, NC; NCO Academy, Ft. Campbell, KY; NCO Academy, Ft. Riley, KS; NCO Academy, Ft. Hood, TX; NCO Academy, Ft. Carson, CO; NCO Academy, Ft. Ord, CA; NCO Academy, Ft. Lewis, WA; NCO Academy, Ft. Richardson, AK; NCO Academy, Schofield Barracks, HI; NCO Academy, Ft. Stewart, GA; NCO Academy, 7th Army, Germany.

Length: 4-6 weeks (153-259 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to function as a section chief in a field artillery unit; lead, train, and direct subordinate personnel to maintain, operate and employ weapons and equipment.

Instruction: Lectures and practical exercises in leadership, maintenance, tactics, communications, land navigation, weapons, and training management.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (4/92).

Related Occupations: 13B.

AR-2201-0363

1. FIRE SUPPORT SERGEANT ADVANCED
NONCOMMISSIONED OFFICER (NCO)
2. FIRE SUPPORT SPECIALIST ADVANCED
NONCOMMISSIONED OFFICER (NCO)
(Field Support Advanced Noncommissioned Officer (NCO))

Course Number: *Version 1:* 250-13F40.
Version 2: 250-13F40.

Location: Field Artillery School, Ft. Sill, OK.

Length: *Version 1:* 11 weeks (442 hours).
Version 2: 8-9 weeks (295-329 hours).

Exhibit Dates: *Version 1:* 10/94–Present.
Version 2: 1/90–9/94.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to be an exporter of modern battlefield tactics, techniques, and procedures to the unit. This version is pending evaluation. *Version 2:* Upon completion of the course, the student will be able to be an exporter of modern battlefield tactics, techniques, and procedures to the unit.

Instruction: *Version 1:* Instruction on the capability and organization of the fire support team including the duties, responsibilities, and missions of fire support team personnel; instruction on how to perform, lead, train, and evaluate personnel. This version is pending evaluation. *Version 2:* Instruction on the capability and organization of the fire support team including the duties, responsibilities, and missions of fire support team personnel; instruction on how to perform, lead, train, and evaluate personnel.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* Credit is recom-

mended for the common core only. See AR-1404-0035 (1/92).

Related Occupations: 13F.

AR-2201-0364

LANCE CREWMEMBER BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: 042-13N30; 042-13N30
(CT); 042-15D30

Location: Field Artillery School, Ft. Sill, OK.

Length: 5-7 weeks (178-270 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the tasks that are required of a firing section chief or an assembly and transport section chief on a Lance Missile firing battery.

Instruction: Lectures and practical exercises in Lance Missile firing operations, assembly and transport operations, system tactics, special weapons, operator and crew maintenance, organizational maintenance and maintenance of system specific forms and records.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (1/92).

Related Occupations: 13N; 15D.

AR-2201-0365

MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)/
LANCE OPERATIONS FIRE DIRECTION
SPECIALIST BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: 043-13P30.

Location: Field Artillery School, Ft. Sill, OK.

Length: 5-8 weeks (209-312 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the tasks required of a liaison sergeant, fire direction operator, or assistant chief fire direction specialist.

Instruction: Lectures and practical exercises in common noncommissioned officer skills (leadership, tactics, etc.) and specific tasks required in Multiple Launch Rocket System (MLRS)/Lance operations and digital fire direction and communications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in maintenance management. See AR-1406-0090 for common core credit (1/92).

Related Occupations: 13P.

AR-2201-0366

MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)
BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 042-13M30.

Location: Field Artillery School, Ft. Sill, OK.

Length: 2-4 weeks (76-191 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the tasks that are required of a section chief in a Multiple Launch Rocket System (MLRS) firing and ammunition section.

Instruction: Lectures and practical exercises in map reading, air/land battle, leadership, military inspections, launcher destruction, safety procedures, and reload operations.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (1/92).

Related Occupations: 13M.

AR-2201-0367

MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)
CREWMEMBER ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: 042-13M40.

Location: Field Artillery School, Ft. Sill, OK.

Length: 3-4 weeks (132-179 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform tasks that are required of a firing platoon sergeant or an ammunition platoon sergeant in a Multiple Launch Rocket System (MLRS) firing battery.

Instruction: Lectures and practical exercises in message device operations, ammunition resupply, platoon defense, combat service support and preparation of messages, maps and charts.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (1/92).

Related Occupations: 13M.

AR-2201-0368

FIELD ARTILLERY CANNON BATTERY OFFICER

Course Number: 2E-13E.

Location: Field Artillery School, Ft. Sill, OK.

Length: 6 weeks (280 hours).

Exhibit Dates: 1/90–12/92.

Learning Outcomes: Upon completion of the course, the student will be able to lead the operation of cannon battery supply and maintenance and fire direction of a cannon battery field unit.

Instruction: Lectures and practical exercises on cannon systems, fire direction, battery operations, maintenance, and supply.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in maintenance management (9/94).

AR-2201-0369

TACTICAL FIRE (TACFIRE) OPERATION

SPECIALIST ADVANCED

NONCOMMISSIONED OFFICER (NCO)

ADVANCED

(Field Artillery Tactical Fire (TACFIRE)

Noncommissioned Officer (NCO)

Advanced)

Course Number: 250-13C40.

Location: Field Artillery School, Ft. Sill, OK.

Length: 3-7 weeks (137-256 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to train selected personnel in modern battlefield tactics, techniques, and procedures.

Instruction: Practical application of automatic data processing, and the duties, responsibilities, and missions of personnel working in a computer controlled fire direction center.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (3/92).

Related Occupations: 13C.

AR-2201-0370

PERSHING MISSILE CREWMEMBER BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 043-15E30.

Location: Field Artillery School, Ft. Sill, OK.

Length: 3 weeks (104 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to prepare missile sections for assembly, inspect and install initiators and detonators and direct countdown operations in the event of a countdown malfunction.

Instruction: Lectures and practical exercises in launcher operations, missile assembly/disassembly, handling countdown malfunctions and direct countdown operations.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (6/89).

Related Occupations: 15E.

AR-2201-0371

LIGHT MISSILE FIELD ARTILLERY (LANCE)

Course Number: 2F-13B.

Location: Field Artillery School, Ft. Sill, OK.

Length: 5-6 weeks (211 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate, maintain, and employ the Lance missile system; includes component identification, system capabilities, preventive maintenance, safety, transport, targeting, and firing of the Lance missile.

Instruction: Lectures and field exercises in the capabilities of the missile system, system components, safety, transport, targeting, and firing.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/89).

Related Occupations: 13B.

AR-2201-0372

CANNON CREWMAN

Course Number: 041-13B10; 13B10-OSUT.

Location: Field Artillery School, Ft. Sill, OK.

Length: 5-13 weeks (182 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform basic combat survival skills; load and fire howitzers; and perform preventive maintenance checks and other maintenance on artillery equipment.

Instruction: Lectures and field exercises in the maintenance and use of howitzers, including loading and firing.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/89).

Related Occupations: 13B.

AR-2201-0374

MARINE CORPS BATTERY COMMANDER

Course Number: 2E-FOA-F90 (USMC).

Location: Field Artillery School, Ft. Sill, OK.

Length: 2 weeks (76 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to conduct fire support planning and coordination for amphibious operations.

Instruction: Refresher course with lectures, discussion, and exercises on target acquisition, surveys, communications, fire mission planning, and command responsibilities.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/95).

AR-2201-0375

LANCE CREWMEMBER
(Lance Missile Crewmember)

Course Number: 042-13N10; 042-15D10.

Location: Field Artillery School, Ft. Sill, OK.

Length: 6-7 weeks (232-254 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform preventive maintenance, position and set up equipment, perform firing operations, perform safety procedures, and operate the radio set on the Lance missile system.

Instruction: Lectures and performance exercises on the operation and maintenance of Lance missile system equipment. Includes experience in assembly, transportation, and daily preventive maintenance.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/89).

Related Occupations: 13N; 15D.

AR-2201-0376

FIELD ARTILLERY SURVEYOR BASIC
NONCOMMISSIONED OFFICER (NCO)

Course Number: 412-82C30.

Location: Field Artillery School, Ft. Sill, OK.

Length: 6-8 weeks (205-314 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform as section chief in artillery and target acquisition battery survey sections.

Instruction: Lectures and practical exercises in astronomic observation, field artillery survey, solution of triangles, location of traverse errors, triangulation and resection, leadership, training management, resource management, and military skills.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in general surveying and 1 for basic field practice in surveying. See AR-1406-0090 for common core credit (1/92).

Related Occupations: 82C.

AR-2201-0377

OH-58D FIELD ARTILLERY INSTRUCTOR PILOT
FIRE SUPPORT

Course Number: 2E-F130.

Location: Field Artillery School, Ft. Sill, OK.

Length: 2 weeks (69-77 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to serve as an instructor pilot at division, field, and brigade artillery levels; provide instruction and perform evaluations of aerial fire support observers.

Instruction: Lectures and practical exercises on tactical missions, artillery fire planning, message procedures, targeting, illumination, and ground-air coordination.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (10/89).

AR-2201-0378

PROFESSIONAL ARTILLERY REFRESHER

(Special Career Level Artillery Advanced Gunnery (USMC))

Course Number: 2E-F49; 2E-F49 (USMC).

Location: Field Artillery School, Ft. Sill, OK.

Length: 3-6 weeks (115-195 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the supervisory duties of a battalion fire direction officer or a battery commander.

Instruction: A refresher course on artillery fire planning, coordination, and control. Lectures and class discussion on the management of a field artillery unit, using manual and computer-assisted techniques.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/95).

AR-2201-0379

NUCLEAR CANNON ASSEMBLY

Course Number: 4F-F5/041-ASU4.

Location: Field Artillery School, Ft. Sill, OK.

Length: 2 weeks (68 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform inspection, unpackaging, and prefire procedures of the M454, M753, and M422 atomic projectiles.

Instruction: Lectures and practical exercises in the procedures for assembly, prefire, and disassembly of the projectile, weapon maintenance, safety, accident/incident response, and tiedown procedures.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/89).

AR-2201-0380

AUTOMATED FIRE SUPPORT LEADER

Course Number: 2E-F145.

Location: Field Artillery School, Ft. Sill, OK.

Length: 6 weeks (205 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise fire support sections in the use of automated equipment to enhance fire support coordination, planning, and execution.

Instruction: Lectures and practical exercises on meteorological data, message devices, the tactical fire (TACFIRE) system, fire support coordination, intelligence data, targeting, fire planning and overall fire support execution.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/89).

AR-2201-0381

NUCLEAR WARHEAD DETACHMENT

Course Number: 2E-F96/041-F8, 2E-F96.

Location: Field Artillery School, Ft. Sill, OK.

Length: 3 weeks (108 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to understand the fundamental operational procedures for Lance and Pershing missiles and related topics such as security, terrorist threats, warhead inspection, and safety considerations.

Instruction: Lectures and practical exercises in security, courier duties, publications, threats, Lance operations, Pershing operations, weapon storage, and handling and safety rules.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/89).

AR-2201-0382

LANCE (NCO) RECLASSIFICATION (TRANSITION)

Course Number: 042-13N30-T.

Location: Field Artillery School, Ft. Sill, OK.

Length: 6 weeks (245 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform duties as a section chief, assistant section chief, or launcher specialist; this includes maintenance, service, transport, set-up, and launch of the Lance missile system.

Instruction: Lectures and practical exercises on transport vehicles, operator and crew maintenance, system tactics, weapons, and overall operation of the Lance missile system.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/89).

Related Occupations: 13N.

AR-2201-0383

BATTERY COMPUTER SYSTEM CADRE RESERVE COMPONENT

Course Number: 2E-F71/250-F16.

Location: Field Artillery School, Ft. Sill, OK.

Length: 2-3 weeks (72-108 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to connect the various components of a mobile unit-based computer system, perform proper procedure to power-up and load the computer program, initialize and construct data base, perform all procedures necessary to process fire missions and transmit gun commands in an autonomous mode of operation.

Instruction: Primarily a hands-on course providing training in use and troubleshooting techniques for the battery computer system.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/89).

AR-2201-0384

ALL-SOURCE INTELLIGENCE TECHNICIAN

WARRANT OFFICER TECHNICAL/TACTICAL CERTIFICATION, PHASE 2

(Warrant Officer Technical/Tactical Certification, Phase 2 350B All Source Intelligence Technician)

(Warrant Officer Technical/Tactical Certification, Phase 2 MOS 350B Order of Battle Technician)

Course Number: 3A-350B.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 2-3 weeks (92 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be updated on new equipment and technology upgrades; identify intelligence indicators; prepare an order of battle briefing; and recognize various threat doctrines.

Instruction: Lectures and classroom testing on the subject matter.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (1/92).

Related Occupations: 350B.

AR-2201-0385

BATTLEFIELD DECEPTION

Course Number: 3A-F56/230-ASID4.

Location: Intelligence School, Ft. Huachuca, AZ.

Length: 6-7 weeks (235-246 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform deception planning; identify electronic deception; identify and explain the need for sonic deception; perform and evaluate a deception operation; read maps.

Instruction: Lectures, classroom testing, and field tests on the above material.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/90).

AR-2201-0386

BATTALION/BRIGADE SIGNAL OFFICER

Course Number: 4C-SI6B.

Location: Signal School, Ft. Gordon, GA.

Length: 9 weeks (324 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise the installation, operation, and maintenance of communications systems in nonsignal units.

Instruction: Lectures and practical exercises on communication procedures, AM and FM radio equipment, radio fundamentals, and troubleshooting.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (6/90).

AR-2201-0387

LEADERSHIP DEVELOPMENT

Course Number: PEC-T-O-LDC.

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 2 weeks (76 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide information on direct and indirect level leadership based upon human relations and conceptual skills.

Instruction: Lecture, discussion, group exercise and practical experience are the methods of instruction. The topics covered include brain dominance, conflict management, counseling, delegating, communication, stress management, team building, time management, visioning, negotiating, and problem solving.

Credit Recommendation: Credit is not recommended because there is no provision for formal student evaluation (7/90).

AR-2201-0388

NATIONAL GUARD (ARNG) RETENTION
NONCOMMISSIONED OFFICER (NCO)

Course Number: 501-79D30 (ARNG).

Location: Professional Education Center, Cp. Joseph Robinson, North Little Rock, AR.

Length: 2 weeks (72 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to effectively use presentation, communication, conferencing, and interviewing skills to deliver and receive appropriate information dealing with employee's satisfaction levels, desires and opportunities.

Instruction: Performance-based instruction is used, with significant homework assignments, individual presentations, and the conduct of small group interviewing and conferencing. Evaluation is accomplished through exercises and examinations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel management (11/91).

Related Occupations: 79D.

AR-2201-0389

AMMUNITION SPECIALIST

Course Number: 645-55B10.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 6 weeks (212 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify ammunition items, perform destruction of unserviceable ammunition, perform inventory, issue, receipts, storage and loading/offloading operations and operate a forklift.

Instruction: Conferences and practical exercises in ammunition material, service procedures, storage, handling, movement, inspection, maintenance, and destruction. Upon completion of the course students will be able to identify and handle various ammunition material; prepare, store, and issue ammunition; perform explosive decontamination; and perform emergency destruction of ammunition.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in safety risk management (8/91).

Related Occupations: 55B.

AR-2201-0390

AMMUNITION INSPECTOR

Course Number: 645-55X30.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 7-8 weeks (277 hours).

Exhibit Dates: 10/90–9/92.

Learning Outcomes: Upon completion of the course, the student will be able to identify ammunition, inspect field storage, prepare automated systems documents, inspect handling operations, inspect artillery ammunition, inspect land mines, inspect guided missiles, prepare samples for shipment and perform malfunction investigation.

Instruction: Conferences and practical exercises in ammunition material; rocket and guided missile inspection and maintenance; storage, handling, and transportation of ammunition; surveillance and maintenance of ammunition; and demilitarization and destruction of ammunition.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in safety risk management (8/91).

AR-2201-0391

NUCLEAR WEAPONS TECHNICIAN SENIOR WARRANT
OFFICER

Course Number: 4-9-C32-911A.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 3-7 weeks (109-234 hours).

Exhibit Dates: 1/90–1/96.

Learning Outcomes: Upon completion of the course, the student will be able to perform senior warrant officer nuclear weapons technician duties and will be familiar with nuclear stockpile accountability, custody accountability and other nuclear weapons control update.

Instruction: Annex A: Lectures and practical exercises in military leadership, communications, command climate, rules and codes of war, military justice and force integration. Annex B: Lectures and discussion of the duties and responsibilities; nuclear systems update; DoE-DoD interrelationships, nuclear weapons support, ionizing radiation protection; nuclear surety and other updated pertinent topics.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/91).

AR-2201-0392

AMMUNITION SPECIALIST BASIC NONCOMMISSIONED
OFFICER (NCO)

Course Number: 645-55B30.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 5-7 weeks (203-243 hours).

Exhibit Dates: 1/90–9/92.

Learning Outcomes: Upon completion of the course, the student will be able to identify, receive, store, issue and destroy ammunition; use a computer for ammunition inventory control and operate at ammunition supply point (ASP).

Instruction: Lectures and practical exercises in threat recognition, ammunition identification, ammunition storage principles, planning handling procedures, inventory control and directing fire fighting.

Credit Recommendation: Credit is recommended for the common core only. See AR-1406-0090 (10/91).

Related Occupations: 55B.

AR-2201-0393

AMMUNITION INSPECTOR ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: 645-55X40.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 8-9 weeks (284 hours).

Exhibit Dates: 4/90–1/96.

Learning Outcomes: Upon completion of the course, the student will be able to provide assistance and supervise subordinates in the processing of ammunition records, reports, and storage, inventory, warehousing, disposal and maintenance.

Instruction: Includes lectures and practical exercises in small group instruction, marksmanship, ammunition support, personnel utilization and document preparation.

Credit Recommendation: Credit is recommended for the common core only. See AR-1404-0035 (8/91).

Related Occupations: 55X.

AR-2201-0394

AMMUNITION TECHNICIAN WARRANT OFFICER
TECHNICAL AND TACTICAL CERTIFICATION
RESERVE (PHASE 2 AND 4)

Course Number: 4E-910A-RC.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 2 weeks (206 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to describe ammunition support, develop ammunition operating procedures, prepare malfunction reports, identify characteristics of toxic and non-toxic chemical agents and operating procedures for a decontamination station.

Instruction: Lectures and practical exercises in ammunition support and operating procedures, writing malfunction reports, leak sealing for defective chemical weapons and decontamination center operation.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/91).

AR-2201-0395

AMMUNITION SPECIALIST ADVANCED
NONCOMMISSIONED OFFICER (NCO)
RESERVE

Course Number: 093-55B40-RC.

Location: Missile and Munitions School, Redstone Arsenal, AL; Reserve Training Centers, Continental US.

Length: 2 weeks (98 hours).

Exhibit Dates: 1/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to develop a security plan, locate documentation errors, understand error codes, use correct log-in procedures and understand deployment procedures for vans.

Instruction: Lectures and practical exercises in site plan preparations, Standard Army Ammunition System (SAAS), recovery of data after a power failure and system log-in and password techniques.

Credit Recommendation: Credit is recommended for the common core only. See AR-2201-0238 (8/91).

Related Occupations: 55B.

AR-2201-0396

AMMUNITION SPECIALIST RESERVE COMPONENT
PHASE 2

Course Number: 645-55X30 RC

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 2 weeks (97 hours)

Exhibit Dates: 10/90-Present

Learning Outcomes: Upon completion of the course, the student will be able to inspect ammunition, handle ammunition and issue receipts, prepare automated documents, classify grenades and mines and record defects.

Instruction: Lectures and practical exercises in ammunition safety, microfiche readers and data extraction, ammunition storage ammunition defect determination and shipping and storage container inspection.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/91).

Related Occupations: 55X.

AR-2201-0397

AMMUNITION STOCK CONTROL AND ACCOUNTING
SPECIALIST BASIC NONCOMMISSIONED
OFFICER (NCO) RESERVE

Course Number: 093-55R30.

Location: Missile and Munitions School, Redstone Arsenal, AL; Reserve Training Centers, Continental US.

Length: 2 weeks (82 hours).

Exhibit Dates: 1/90-1/96.

Learning Outcomes: Upon completion of the course, the student will be able to perform operational tasks, functional routines and composition of reports normally encountered on the job at the Corps Material Management Center.

Instruction: Practical exercises in automatic data processing system operation, requisitioning ammunition, management report production, preparing stock records and producing inventory control forms.

Credit Recommendation: Credit is recommended for the common core only. See AR-2201-0337 (8/91).

Related Occupations: 55R.

AR-2201-0398

1. NUCLEAR WEAPONS SPECIALIST ADVANCED NONCOMMISSIONED OFFICER (NCO)
2. AMMUNITION ADVANCED NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 644-55G40. *Version 2:* 645-55B/B40; 6-55-C42A.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: *Version 1:* 7 weeks (248 hours). *Version 2:* 13-14 weeks (489 hours).

Exhibit Dates: *Version 1:* 4/91-1/96. *Version 2:* 5/90-3/91.

Learning Outcomes: *Version 1:* Upon completion of the course, the student will be able to recognize stress which affects prisoners of war; conduct nuclear, biological, and chemical defense; describe storage standards; plan disposal operations; report malfunctions, review documents, understand computer-based inventory control and maintain stockage levels. *Version 2:* Upon completion of the course, the student will be able to recognize stress which affects prisoners of war; conduct nuclear, biological, and chemical defense; describe storage standards; plan disposal operations; report mal-

functions, review documents, understand computer-based inventory control and maintain stockage levels.

Instruction: *Version 1:* Lectures and extensive practical exercises in POW survival, ammunition storage standards, disposal operations, maintenance operations, ammunition logistics, leadership characteristics, and battlefield operations. *Version 2:* Lectures and extensive practical exercises in POW survival, ammunition storage standards, disposal operations, maintenance operations, ammunition logistics, leadership characteristics, and battlefield operations.

Credit Recommendation: *Version 1:* Credit is recommended for the common core only. See AR-1404-0035 (8/91). *Version 2:* In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of management and 1 in communications. See AR-1404-0035 for common core credit (8/91).

Related Occupations: 55B; 55G.

AR-2201-0399

BASIC COMBAT TRAINING
(Basic Training)
(Recruit Training)

Course Number: 21-214.

Location: Training Center, Ft. Benning, GA; Training Center, Ft. Bliss, TX; Training Center, Ft. Dix, NJ; Training Center, Ft. Jackson, SC; Training Center, Ft. Knox, KY; Training Center, Ft. Leonard Wood, MO; Training Center, Ft. McClellan, AL; Training Center, Ft. Sill, OK.

Length: 8 weeks (370-425 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of this program of instruction, the graduated recruit will be able to demonstrate general knowledge of military organization and culture; mastery of individual and group combat skills including marksmanship and first aid; achievement of minimal physical conditioning standards; and ability to successfully apply basic safety and living skills in the outdoor environment.

Instruction: Instruction includes lectures, demonstrations, and performance exercises in basic military culture/subjects including marksmanship, physical conditioning, first aid and outdoor adaptation/living skills.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in personal physical conditioning, 1 in outdoor skills/practicum, 1 in marksmanship, and 1 in first aid (7/95).

AR-2201-0400

SPECIAL OPERATIONS FORCES PRE-COMMAND

Course Number: 2E-F95.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 1 week (34-35 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will understand the operation of the Special Warfare Center and School; be familiar with the Special Forces policies and doctrine.

Instruction: Methods of instruction include lecture and discussion on Special Forces doctrine and policies.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (12/92).

AR-2201-0401

SPECIAL FORCES WEAPONS SERGEANT ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 011-18D40. *Version 2:* 011-18B40

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: *Version 1:* 18-19 weeks (1051 hours). *Version 2:* 12 weeks (524-543 hours).

Exhibit Dates: *Version 1:* 10/94-Present. *Version 2:* 1/90-9/94

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student should qualify in an advanced level of leadership and technical training and be able to serve in selected leadership and staff positions. *Version 2:* Upon completion of the course, the student should qualify in an advanced level of leadership and technical training and be able to serve in selected leadership and staff positions.

Instruction: *Version 1:* This version is pending evaluation. Lecture and practical exercises in leadership, military studies, professional skills, resource management, effective communication, operations, tactics, psychological operations, unconventional warfare planning, and operational planning and techniques. *Version 2:* Lecture and practical exercises in leadership, military studies, professional skills, resource management, effective communication, operations, tactics, psychological operations, unconventional warfare planning, and operational planning and techniques.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* Credit is not recommended because of the limited, specialized nature of the course (12/92).

Related Occupations: 18B.

AR-2201-0402

SPECIAL FORCES WEAPONS SERGEANT ADVANCED
NONCOMMISSIONED OFFICER (NCO)
RESERVE COMPONENT PHASE 2

Course Number: 011-18B40-RC.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 3 weeks (209 hours).

Exhibit Dates: 8/91-Present.

Learning Outcomes: Upon completion of the course, the student should be able to qualify in an advanced level of leadership and technical training to serve in selected leadership and staff positions.

Instruction: Lectures and practical exercises in operations, planning, training, intelligence, organization, and functions.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the training (12/92).

Related Occupations: 18B.

AR-2201-0403

SPECIAL FORCES ENGINEER SERGEANT ADVANCED
NONCOMMISSIONED OFFICER (NCO)
RESERVE COMPONENT PHASE 2

Course Number: 011-18C40-RC.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: 3 weeks (209 hours).

Exhibit Dates: 8/91-Present.

Learning Outcomes: Upon completion of the course, the student will be able to demonstrate basic leadership and professional skills in

resource management, communications, tactics, psychological operations, unconventional warfare planning, operational planning, intelligence collection and basic administration techniques.

Instruction: Lectures, demonstrations, and practical exercises in leadership skills, communications, psychological operations, unconventional warfare planning, and administration.

Credit Recommendation: Credit is not recommended because of the military-specific course content (1/93).

Related Occupations: 18C.

AR-2201-0404

SPECIAL FORCES ENGINEER SERGEANT ADVANCED
NONCOMMISSIONED OFFICER (NCO)

Course Number: *Version 1:* 011-18C40.
Version 2: 011-18C40.

Location: John F. Kennedy Special Warfare Center and School, Ft. Bragg, NC.

Length: *Version 1:* 18-19 weeks (1075 hours). *Version 2:* 12 weeks (524-543 hours).

Exhibit Dates: *Version 1:* 10/94–Present.
Version 2: 1/90–9/94.

Learning Outcomes: *Version 1:* This version is pending evaluation. Upon completion of the course, the student will be able to demonstrate basic leadership and professional skills in the areas of resource management, communication, tactics, psychological operations, unconventional warfare planning, operational planning, intelligence collection, and basic administration techniques. *Version 2:* Upon completion of the course, the student will be able to demonstrate basic leadership and professional skills in the areas of resource management, communication, tactics, psychological operations, unconventional warfare planning, operational planning, intelligence collection, and basic administration techniques.

Instruction: *Version 1:* This version is pending evaluation. Lectures, demonstrations, and practical exercises in leadership skills, communications, psychological operations, unconventional warfare planning, and administration. *Version 2:* Lectures, demonstrations, and practical exercises in leadership skills, communications, psychological operations, unconventional warfare planning, and administration.

Credit Recommendation: *Version 1:* Pending evaluation. *Version 2:* Credit is recommended for the common core only. See AR-1404-0035 (1/93).

AR-2201-0405

SAPPER LEADER

Course Number: 2E-F73/030-F3.

Location: Engineer School, Ft. Leonard Wood, MO.

Length: 4 weeks (149 hours).

Exhibit Dates: 3/92–Present.

Learning Outcomes: Upon completion of the course the student will be proficient in demolitions, mountaineering, water and aerial operations, troop leading procedures, and specialized battle techniques.

Instruction: Lectures and practical exercises in demolitions (conventional and expedient), aerial, waterborne, and mountaineering operations, troop leadership and battle drills.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (1/93).

AR-2201-0406

QUARTERMASTER OFFICER BRANCH QUALIFICATION

Course Number: 8-10-C20-BQ.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 4 weeks (146 hours).

Exhibit Dates: 10/91–Present.

Learning Outcomes: Upon completion of the course, the student will have developed management level skills necessary to understand the logistics functions as they relate to combat service and include a familiarity with food service management, mortuary affairs, procurement and contracting, petroleum and water supply and other supply procedures. Automated systems used to support the logistics functions are presented and discussed.

Instruction: Classroom lectures, practical problems, and demonstrations and examinations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (2/93).

AR-2201-0407

QUARTERMASTER OFFICER ADVANCED RESERVE,
PHASE II

Course Number: 8-10-C23.

Location: Quartermaster Center and School, Ft. Lee, VA.

Length: 2 weeks (108-114 hours).

Exhibit Dates: 10/92–Present.

Learning Outcomes: Upon completion of the course, the student will have developed a familiarity at the management level of the logistics function including the principles of war, offensive/defensive operations, leadership skills and awareness of levels of the supply function and types of logistics under his/her control. Logistics automated systems are discussed to present a framework to support the function.

Instruction: Classroom lectures, practical problems, and examinations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (5/96).

AR-2201-0408

MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)
FAMILY OF MUNITIONS

Course Number: 2F-F16/042-ASIY1 (13M).

Location: Field Artillery School, Ft. Sill, OK.

Length: 1-2 weeks (64 hours).

Exhibit Dates: 10/90–12/93.

Learning Outcomes: Upon completion of the course, the student will be able to operate and supervise the operation of the multiple launch rocket fire control system.

Instruction: Lectures and practical exercises in fire control systems, fire missions, position calibration, and system troubleshooting.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/94).

AR-2201-0409

MARINE CORPS FIELD ARTILLERY CHIEF

Course Number: AQD.

Location: Field Artillery School, Ft. Sill, OK.

Length: 3 weeks (147 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to emplace, operate, test, and maintain the artillery weapon system. This includes survey techniques and ammunition velocity selection and control.

Instruction: Lectures, field applications, written exams, and performance exams on map reading, hasty surveys, fire alignment, and position defense.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/94).

AR-2201-0410

MARINE CORPS CANNON CREWMAN

Course Number: 041-0881-OS; O82.

Location: Field Artillery School, Ft. Sill, OK.

Length: 5 weeks (188 hours).

Exhibit Dates: 11/92–Present.

Learning Outcomes: Upon completion of the course, the student will be able to load and fire howitzers, perform preventive maintenance, determine cannon positioning, and use the gun display unit.

Instruction: Lectures and field exercises in the use and maintenance of howitzers, including loading, firing, and positioning.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (9/94).

AR-2201-0411

FIELD ARTILLERY OFFICER BASIC

Course Number: 2-6-C20.

Location: Field Artillery School, Ft. Sill, OK.

Length: 19-20 weeks (750-896 hours).

Exhibit Dates: 1/91–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform the duties of the executive officer, the fire direction officer, the platoon leader, or the forward observer; the student will also be able to function as a training management officer; the student will be able to employ the concepts, skills and equipment to achieve coordination of artillery firing.

Instruction: Lectures, conferences, practical exercises, and field exercises on topics of management, leadership, precision techniques in gunnery, communications systems and employment, and the accurate determination of firing data using manual techniques; also, the student will know and use the two computer systems, battery computer system (BCS), and the back-up computer system (BUCS); student will be familiar with meteorological effects and computations, geographical survey techniques, and mathematical skill in computing coordinates as well as firing data; artillery equipment will be studied for its technical functioning and maintenance needs.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in technical math, 1 in survey techniques, and 1 in computer principles (9/94); in the upper-division baccalaureate category, Credit in advanced military science at institutions that normally offer such credit (9/94).

AR-2201-0412

BATTLE STAFF NONCOMMISSIONED OFFICER (NCO)

Course Number: 250-AS12S

Location: Sergeants Major Academy, Ft Bliss, TX

Length: 6 weeks (259-260 hours)

Exhibit Dates: 1/91-Present

Learning Outcomes: Upon completion of the course, the student will be able to demonstrate knowledge of management principles and the required practical understanding needed to support senior officers in a headquarters or a field environment by providing information and recommendations on battlefield operations; supervising people, operations and logistics; and employing all current automated battlefield communications systems.

Instruction: Includes performance exercises in management including planning, organization, leadership, human relations, motivation, oral and written communication, public speaking, small group communication and interaction, resource management and the use of automated information systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in health and fitness, 1 in resource management, and 1 in introduction to information systems (6/95); in the upper-division baccalaureate category, 1 semester hour in operations management (6/95).

AR-2201-0413

RESERVE COMPONENT MULTIFUNCTIONAL COMBAT SERVICE SUPPORT

Course Number: ALMC-RC.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: 2 weeks (88 hours).

Exhibit Dates: 1/95-Present.

Learning Outcomes: Upon completion of the course, the student will be able to assume duties in conducting battlefield combat sustainment especially in various aspects of logistics operations while sustaining the combat readiness.

Instruction: Instruction is primarily a study of published field manuals (FM's).

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/95).

AR-2201-0414

SUPPORT OPERATIONS, PHASE 2

Course Number: ALMC-SO.

Location: Army Logistics Management College, Ft. Lee, VA.

Length: 2 weeks (75 hours).

Exhibit Dates: 4/92-Present.

Learning Outcomes: Upon completion of the course, the student will be able to prepare and organize support functions and manage combat service support and needs during peacetime and wartime.

Instruction: Lecture and demonstration on topics of military specifics in areas of the CSS tasks of arm, fix, move, sustain, and fuel the force.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/95).

AR-2201-0415

FORWARD AREA AIR DEFENSE OFFICER RECLASSIFICATION, PHASE 2

Course Number: 2E-14B-RC.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 59 hours

Exhibit Dates: 6/95-Present

Learning Outcomes: Upon completion of the course, the student will be able to direct the use of specific missile systems.

Instruction: Lectures and practical exercises involving the battlefield tactics of several specific missile systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/95).

AR-2201-0416

SHORAD OFFICER RECLASSIFICATION RESERVE

Course Number: 2E-14B-RC.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 2 weeks (109 hours).

Exhibit Dates: 7/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to direct the use of Stinger, Chaparral, or Vulcan missile systems in battle.

Instruction: Lectures and practical exercises involving the characteristics, capabilities, limitations, and tactics of the air defense systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/95).

AR-2201-0417

AIR DEFENSE ARTILLERY PATRIOT OFFICER RECLASSIFICATION - RESERVE - PHASE 2 AND 4

Course Number: 2E-14E-RC.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 101 hours.

Exhibit Dates: 1/95-Present.

Learning Outcomes: Upon completion of the course, the student will be able to describe the operation and use of a specific army missile.

Instruction: Phases 1 and 3 directed, reading (non-resident). Phases 2 and 4 lectures and practical exercises covering the Patriot missile system.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/95).

AR-2201-0418

AIR DEFENSE ARTILLERY WARRANT OFFICER ADVANCED RESERVE, PHASE 2

Course Number: 2-44-C32-RC.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 94 hours.

Exhibit Dates: 1/94-Present.

Learning Outcomes: Upon completion of the course, the student will be able to describe military doctrine and missile systems; and use effective written and oral communication techniques.

Instruction: Lectures and practical exercises on topics including military doctrine and history, writing and speaking techniques, and a specific missile system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in written and oral communications (8/95).

AR-2201-0419

HAWK MISSILE AIR DEFENSE ARTILLERY OFFICER RECLASSIFICATION, RESERVE

Course Number: 2F-14D (PIP 2)-RC.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: Phase 2, 2 weeks (70-110 hours); Phase 4, 4 weeks (80-104 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to direct the employment, check-out, and firing of Hawk Army air defense missiles, Stinger air-defense missiles, and associated command and control systems.

Instruction: Lectures and practical exercises involving the Hawk, Stinger, and associated command and control equipment.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/95).

AR-2201-0420

AIR DEFENSE ARTILLERY OFFICER ADVANCED SHORAD FOLLOW-ON

Course Number: 2E-FOA-F142.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 3 weeks (87-109 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to characteristics, capabilities, several functions, and operation of three missile and radar systems.

Instruction: Lectures and practical exercises focused on the specific military systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/95).

Related Occupations: 14B.

AR-2201-0421

PATRIOT AIR DEFENSE OFFICER

Course Number: 2F-14EX.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 8 weeks (291 hours).

Exhibit Dates: 12/93-Present.

Learning Outcomes: Before 12/93 see AR-2201-0261. Upon completion of the course, the student will be able to lead a platoon and direct the use of a Patriot Army air defense missile system.

Instruction: Lectures and practical exercises involving the deployment, emplacement and tactical use of the Patriot air defense missile system and associated battlefield command and control systems.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (8/95).

AR-2201-0422

AIR DEFENSE ARTILLERY BASIC NONCOMMISSIONED OFFICER (NCO)

Course Number: 0-14-C40.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 7 weeks (344 hours).

Exhibit Dates: 1/94-Present.

Learning Outcomes: Upon completion of the course, the student will be able to lead, train, and direct subordinates in the skills and

knowledge required to participate in combat operations.

Instruction: Lectures and practical exercises conducted in a 24 hour a day environment. Topics include leadership, tactics, communications, and weapons.

Credit Recommendation: Credit is recommended for the Common Core only. See AR-1406-0090 (8/95).

AR-2201-0423

AIR DEFENSE ARTILLERY OFFICER ADVANCED - RESERVE

Course Number: 2-44-C26.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: Phase 1, 2 weeks (183 hours); Phase 3, 2 weeks.

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to describe several missile systems and to describe their use in battle.

Instruction: Lectures and practical exercises over topics on air defense missile systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/95).

AR-2201-0424

AIR DEFENSE ARTILLERY OFFICER BASIC COMMON

Course Number: 2-44-C20.

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 9-10 weeks (378 hours).

Exhibit Dates: 10/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to manage the training, supply, and logistics operations of an Army air defense weapons platoon, and will be able to lead the platoon and direct the combat operations of the air defense weapon system.

Instruction: Lectures and practical exercises covering communication skills, leadership, training, logistics, personnel administration, and military-specific subjects dealing with Army air defense weapons and tactical fighting doctrine.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision (8/95).

AR-2201-0425

AIR DEFENSE ARTILLERY OFFICER BASIC HAWK TRACK (PIP 2) TRACK

(Hawk Weapon System Qualification (Phase 3) Air Defense Artillery Officer Basic)

Course Number: 2-44-C20 (14D).

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 9-10 weeks (379-384 hours).

Exhibit Dates: 10/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise a platoon of personnel and manage the maintenance, operation and tactical use of Hawk Army air defense missile system.

Instruction: Lectures and practical exercises involving the operation, maintenance, deployment, and battlefield tactics of the Hawk air defense missile system and associated communication and central systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/95).

AR-2201-0426

AIR DEFENSE ARTILLERY OFFICER BASIC PATRIOT TRACK

(Patriot Weapon System Qualification Air Defense Artillery Officer Basic)

Course Number: 2-44-C20 (14E).

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 9-10 weeks (353-368 hours).

Exhibit Dates: 10/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to supervise a platoon of personnel and manage the maintenance, operation, and tactical deployment of a Patriot Army air defense missile system.

Instruction: Lecture and practical exercises involving the operation, maintenance, deployment, and battlefield tactics of the Patriot air defense missile system and associated communication and control systems.

Credit Recommendation: Credit is not recommended because of the limited, specialized nature of the course (8/95).

AR-2201-0427

AIR DEFENSE ARTILLERY OFFICER BASIC (FORWARD AREA AIR DEFENSE OFFICER TRACK)

(Air Defense Artillery Officer Basic Shorad Track)

Course Number: 2-44-C20 (14B).

Location: Air Defense Artillery School, Ft. Bliss, TX.

Length: 7-10 weeks (266-370 hours).

Exhibit Dates: 10/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate and direct the deployment of the Chaparral Army air defense weapon system.

Instruction: Lectures and practical exercises involving the operation, maintenance, and deployment of the Chaparral, Avenger, and Vulcan Army air defense systems.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/95).

AR-2201-0428

INFANTRY OFFICER BASIC

Course Number: 2-7-C20.

Location: Infantry School, Ft. Benning, GA.

Length: 16 weeks (949-950 hours).

Exhibit Dates: 6/92-Present.

Learning Outcomes: Upon completion of the course, the student will be prepared to serve as infantry platoon leader and as tactical leader in combat.

Instruction: Lectures, field exercises, and practical applications in army doctrine, drill, weapons/tactics, map reading, equipment controls, logistics, personnel supervision, combat leadership, and conduct training exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in personnel supervision, and 3 in physical training (12/95); in the upper-division baccalaureate category, 3 semester hours in materiel management and 3 in leadership (12/95).

AR-2201-0429

OFFICER CANDIDATE

Course Number: 2-7-F1.

Location: Infantry School, Ft. Benning, GA.

Length: 14 weeks (918-919 hours).

Exhibit Dates: 10/92-Present.

Learning Outcomes: Upon completion of the course, the student will be commissioned as 2nd lieutenants (army) and prepared for officer basic course.

Instruction: Methods include lecture and field exercises in arms tactics, army doctrine, field operations, weaponry on range, military drill and command, develop plans, leadership techniques, and physical training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in leadership, 3 in physical education, 3 in map reading, 3 in communications skills, and 3 in personnel supervision (12/95).

AR-2201-0430

INDIRECT FIRE INFANTRYMAN ADVANCED NONCOMMISSIONED OFFICER (NCO)

Course Number: C10-11C40.

Location: Infantry School, Ft. Benning, GA.

Length: 10-11 weeks (402 hours).

Exhibit Dates: 1/96-Present.

Learning Outcomes: Upon completion of the course, the student will be prepared to serve in noncommissioned role as combat leader in technical/tactical battle missions and also possess platoon level leadership skills.

Instruction: Lecture and practical exercises in plotting directions, computer data, ordering fire missions, determining firing positions, battle-focused leadership, and apply maintenance concepts to weapons, equipment, and supplies.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in materiel management and 2 in map reading (12/95).

Related Occupations: 11C.

AR-2201-0431

BIFV SYSTEM MASTER GUNNER

Course Number: O10-ASIJ3.

Location: Infantry School, Ft. Benning, GA.

Length: 12 weeks (515-516 hours).

Exhibit Dates: 6/92-Present.

Learning Outcomes: Upon completion of the course, the student will develop gunnery objectives, recognize ammunition, operate BIFV vehicle in combat, learn tactical procedures; operate range facility, and perform maintenance.

Instruction: This course includes lectures, live exercises, and demonstrations, operation of live fire exercises, knowledge of gunnery standards, and tactical weaponry.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in physical education (12/95).

AR-2201-0432

FIGHTING VEHICLE INFANTRYMAN ADVANCED NONCOMMISSIONED OFFICER (NCO)

Course Number: 010-11M40.

Location: Infantry School, Ft. Benning, GA.

Length: 10-11 weeks (391 hours).

Exhibit Dates: 4/95-Present.

Learning Outcomes: Upon completion of the course, the student will be prepared to serve as a Bradley platoon sergeant.

Instruction: Lecture and practical exercises in combat skills, physical fitness, logistics, maintenance, assault operations, and communications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in map reading and navigation and 1 in maintenance management (12/95).

Related Occupations: 11M.

AR-2201-0433

BASIC NONCOMMISSIONED OFFICER (NCO) 11H
HEAVY ANTIARMOR WEAPONS
INFANTRYMAN

Course Number: 010-11H30.

Location: Infantry School, Ft. Benning, GA.

Length: 7-8 weeks (317 hours).

Exhibit Dates: 6/93-Present.

Learning Outcomes: Upon completion of the course, the student will be able to lead, train, and direct subordinates to maintain and employ weapons and equipment.

Instruction: Lecture and practical exercises in tactics, weapons, and vehicles.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel supervision (12/95).

Related Occupations: 11H.

AR-2201-0434

RANGER

Course Number: 011-SQIV-G; 2E-SI55-SR.

Location: Infantry School, Ft. Benning, GA.

Length: 8-9 weeks (1144 hours).

Exhibit Dates: 9/92-Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide combat leadership in assault operations.

Instruction: Lecture and field exercises in combat engagement and survival skills under harsh conditions and includes land navigation, intelligence, and physical training.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in physical education (12/95).

AR-2201-0435

INFANTRY OFFICER ADVANCED

Course Number: 2-7-C22.

Location: Infantry School, Ft. Benning, GA.

Length: 20 weeks.

Exhibit Dates: 7/92-Present.

Learning Outcomes: Upon completion of the course, the student will be prepared to serve as a company officer and provide leadership and service support at the company/battalion/brigade levels.

Instruction: Lecture and practical exercises in tactics, personnel, intelligence, logistics, management, training, land navigation, legal aspects, communications, and weapons.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in leadership, 2 in records and information management, 2 in maintenance management, and 1 in physical fitness (12/95).

AR-2201-0436

HEAVY ANTIARMOR WEAPONS INFANTRYMAN
ADVANCED NONCOMMISSIONED OFFICER
(NCO)

Course Number: 010-11H40

Location: Infantry School, Ft. Benning, GA.

Length: 10 weeks (393 hours).

Exhibit Dates: 1/96-Present.

Learning Outcomes: Upon completion of the course, the student will accomplish leadership missions in platoons and perform platoon leader duties in relation to heavy antiarmor weapons.

Instruction: Lectures, demonstrations, field exercises, computer literacy, world threats, tactical doctrine/battle skills, map reading, battle logistics, equipment maintenance, and gunnery overview.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading (12/95).

Related Occupations: 11H.

AR-2201-0437

INFANTRY OFFICER ADVANCED RESERVE
COMPONENT

Course Number: 2-7-C26.

Location: Infantry School, Ft. Benning, GA.

Length: 12 weeks.

Exhibit Dates: 4/93-Present.

Learning Outcomes: Upon completion of the course, the student will be able to demonstrate proper use of special purpose weapons, identify the major components of health threats to field forces, demonstrate advantages and disadvantages between aerial photographs as compared to maps, and describe the principles of decontamination operations.

Instruction: This course includes conferences, lectures, demonstrations, seminars, television, and field training/practical exercise.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in physical education, 2 in maintenance management, 2 in communications skills, and 2 in leadership (12/95).

AR-2201-0438

INFANTRY OFFICER BASIC RESERVE COMPONENT

Course Number: 2-7-C25.

Location: Infantry School, Ft. Benning, GA.

Length: 8 weeks (604 hours).

Exhibit Dates: 6/93-Present.

Learning Outcomes: Upon completion of the course, the student will be able to serve as an infantry platoon leader in combat conditions.

Instruction: Lecture and practical exercises in weapon systems, tactics, leadership, intelligence, and land navigation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in applied geography (12/95).

AR-2201-0439

BASIC NONCOMMISSIONED OFFICER (NCO) 11B
INFANTRYMAN

Course Number: 010-11B30.

Location: Infantry School, Ft. Benning, GA.

Length: 7-8 weeks (315 hours).

Exhibit Dates: 10/92-Present.

Learning Outcomes: Upon completion of the course, the student will be able to serve as a

squad leader, that leads and directs subordinates, and maintains, operates, and employs weapons and equipment.

Instruction: Lecture and practical exercises in leadership, combat skills, logistics, navigation, communications, and assault operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel supervision (12/95).

Related Occupations: 11B

AR-2201-0440

BASIC NONCOMMISSIONED OFFICER (NCO)
INDIRECT FIRE INFANTRYMAN

Course Number: 010-11C30.

Location: Infantry School, Ft. Benning, GA.

Length: 7-8 weeks (315 hours).

Exhibit Dates: 6/93-Present.

Learning Outcomes: Upon completion of the course, the student will be prepared to serve as a section leader who can lead, train, and direct subordinates to maintain and employ weapons and equipment.

Instruction: Lecture and practical exercises in leadership, combat skills, physical fitness, safety, communications, and assault operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel supervision and 1 in computer operations (12/95).

Related Occupations: 11C.

AR-2201-0441

BRADLEY FIGHTING VEHICLE INFANTRYMAN

Course Number: 010-11M30.

Location: NCO Academy, Ft. Stewart, GA; NCO Academy, Ft. Riley, KS; NCO Academy, Ft. Hood, TX; NCO Academy, Ft. Carson, CO; NCO Academy, 7th Army, Europe; Infantry School, Ft. Benning, GA.

Length: 7-8 weeks (309 hours).

Exhibit Dates: 1/93-Present.

Learning Outcomes: Upon completion of the course, the student will be prepared to serve as a squad leader in the maintenance, employment, and operation of weapons and equipment.

Instruction: Lecture and practical exercises in maintenance of equipment, combat operations, and weapons systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour physical fitness (12/95).

Related Occupations: 11M.

AR-2201-0442

SNIPER

Course Number: 010-ASIB4.

Location: Infantry School, Ft. Benning, GA.

Length: Peacetime, 5 weeks.

Exhibit Dates: 5/92-Present.

Learning Outcomes: Upon completion of the course, the student will be able to function as a sniper at the unit level in field combat conditions.

Instruction: Lecture and field exercises on sniper tactics, intelligence information, command and control, and marksmanship.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

AR-2201-0443

TACTICS CERTIFICATION

Course Number: 010-F20; 2E-F163.

Location: Infantry School, Ft. Benning, GA.

Length: 2 weeks (50 hours).

Exhibit Dates: 4/94–Present.

Learning Outcomes: Upon completion of the course, the student will learn troop leading procedures, gain instruction of tactics, obtain deployment skills, and use of weapon systems in defense.

Instruction: Practical application and field exercises in planning missions and tactical operations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

AR-2201-0444

PATHFINDER

Course Number: 011-ASIF7; 2E-SISQ.

Location: Infantry School, Ft. Benning, GA.

Length: 2-3 weeks (145-251 hours).

Exhibit Dates: 8/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to provide navigational assistance to drop-zone aircraft and deploy troops.

Instruction: Lectures and practical exercises in the organization, mission, and training of pathfinder platoons; electronics; communications; and map reading.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

AR-2201-0445

FIGHTING VEHICLE INFANTRYMAN

Course Number: 11M10-OSUT.

Location: Infantry School, Ft. Benning, GA.

Length: 2 weeks (80 hours).

Exhibit Dates: 11/94–Present.

Learning Outcomes: Upon completion of the course, the student will be able to use and maintain the Bradley Fighting Vehicle.

Instruction: Lecture and field experiences on the safe and effective operation of the Bradley Fighting Vehicle.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

Related Occupations: 11M.

AR-2201-0446

OSUT-HEAVY WEAPONS ANTIARMOR INFANTRYMAN

Course Number: 11H10-OSUT.

Location: Infantry School, Ft. Benning, GA.

Length: 1 week (40 hours).

Exhibit Dates: 11/94–Present.

Learning Outcomes: Upon completion of the course, the student will be able to function as a heavy antiarmor crew member.

Instruction: Classroom and field exercises on the TOW-2 weapons system.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

Related Occupations: 11H.

AR-2201-0447

OSUT-INDIRECT FIRE INFANTRYMAN

Course Number: 010-11C10.

Location: Infantry School, Ft. Benning, GA.

Length: 2 weeks (80 hours).

Exhibit Dates: 11/94–Present.

Learning Outcomes: Upon completion of the course, the student will be proficient as a mortar crew member.

Instruction: Practical field exercises on the maintenance and operation of the 81MM mortar.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

Related Occupations: 11C.

AR-2201-0448

OSUT-DRAGON GUNNER

Course Number: 010-11B10; 11B10-OSUT (ASIC2).

Location: Infantry School, Ft. Benning, GA.

Length: 1 week (38 hours).

Exhibit Dates: 11/94–Present.

Learning Outcomes: Upon completion of the course, the student will be able to operate and maintain the M47 Dragon Weapon System.

Instruction: Field exercises in target acquisition and fire techniques with the missile system.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

Related Occupations: 11B.

AR-2201-0449

JUMPMASER

Course Number: 011-F16; 2E-F60.

Location: Infantry School, Ft. Benning, GA.

Length: 1-2 weeks (77-80 hours).

Exhibit Dates: 10/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to train students (qualified parachutists) and jumpmaster techniques.

Instruction: Lecture, demonstration, and practical exercises in parachuting techniques.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

AR-2201-0450

INFANTRY PRE-COMMAND

Course Number: 2G-F26.

Location: Infantry School, Ft. Benning, GA.

Length: 2 weeks (87-88 hours).

Exhibit Dates: 10/92–Present.

Learning Outcomes: Upon completion of the course, the student will be trained on infantry doctrine, infantry equipment, and prepared for command.

Instruction: Demonstrations and field exercises in arms tactics, operations in battle/logistics, and unit readiness.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

AR-2201-0451

INFANTRY MORTAR LEADER

Course Number: 010-F1; 2E-SI3Z.

Location: Infantry School, Ft. Benning, GA.

Length: 5-6 weeks (215 hours).

Exhibit Dates: 11/94–Present.

Learning Outcomes: Upon completion of the course, the student will be able to train officers and noncommissioned officers to command infantry heavy mortar units.

Instruction: Lectures and practical exercise in the supervision of a heavy mortar platoon in

support of infantry combat operations, including tactical employment, methods of employment, tactical considerations, tactical training, communications, weapons, mechanical training and crew drill, forward observation procedures, fire direction center procedures, and heavy mortar platoon communications.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

AR-2201-0452

INFANTRYMAN ADVANCED NONCOMMISSIONED OFFICER (NCO)

Course Number: 010-11B40.

Location: Infantry School, Ft. Benning, GA.

Length: 10-11 weeks (404-405 hours).

Exhibit Dates: 1/96–Present.

Learning Outcomes: Upon completion of the course, the student will be able to identify the benefits of physical training, physical assessment procedures, environmental issues, key factors of threat within a changing environment, and means of HIV transmission and effective prevention.

Instruction: This course includes small group instructions, lectures, live demonstrations, field training and experiences, video presentations, and group discussions.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

Related Occupations: 11B.

AR-2201-0453

BRADLEY FIGHTING VEHICLE LEADER

Course Number: 010-F5; 2E-SI3X.

Location: Infantry School, Ft. Benning, GA.

Length: 7 weeks (291-292 hours).

Exhibit Dates: 4/95–Present.

Learning Outcomes: Upon completion of the course, the student will be able to demonstrate proper hand and arm safety procedures, identify and operate hull controls operations on the BFV, operate an intercom system from the driver's position of a BFV, and disassemble the machine gun and perform safety checks.

Instruction: This course includes live demonstrations, video demonstrations, mini-lectures, and slide and video presentations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

AR-2201-0454

BRADLEY FIGHTING VEHICLE COMMANDER

Course Number: 010-F5-M; 2E-SI3X.

Location: Infantry School, Ft. Benning, GA.

Length: 4 weeks (242 hours).

Exhibit Dates: 11/90–Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform as a commander of the Bradley Fighting Vehicle.

Instruction: Lecture and practical exercises in vehicle maintenance and operations, weapons systems, tactics, and safety.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

AR-2201-0455

AIRBORNE

Course Number: 011-SQIP; 2E-SI5PSQI7.

Location: Infantry School, Ft. Benning, GA.

Length: 3-4 weeks (118-119 hours).

Exhibit Dates: 10/92-Present.

Learning Outcomes: Upon completion of the course, the student will learn techniques of battlefield parachuting.

Instruction: Methods include jump tower training, landing falls, malfunctions, and actual jump experience.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

AR-2201-0456

AIR ASSAULT

Course Number: 2F-A1

Location: Infantry School, Ft. Benning, GA.

Length: 2 weeks (61 hours).

Exhibit Dates: 7/94-Present.

Learning Outcomes: Upon completion of the course, the student will learn combat air assault operations, helicopter use, and understand air missions, including evacuations.

Instruction: Principles and techniques of combat assaults, aircraft safety, aircraft missions, field exercises, and on site assault practice.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

AR-2201-0457

INDIVIDUAL READY RESERVE PREMOBILIZATION

Course Number: 010-F10 (IRR).

Location: Infantry School, Ft. Benning, GA.

Length: 2 weeks (214 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to perform as a fire team/squad leader.

Instruction: Lecture and field exercises in land navigation, weapons, tactics, and enemy engagement.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

AR-2201-0458

TOW MASTER GUNNER

Course Number: 071-010-AS1S1.

Location: Infantry School, Ft. Benning, GA.

Length: 4 weeks (208-209 hours).

Exhibit Dates: 1/93-Present.

Learning Outcomes: Upon completion of the course, the student will learn to perform vehicle troubleshooting, understand systems operations, use gunnery strategies, and conduct training.

Instruction: The student will be able to qualify on weaponry, conduct maintenance checks, mount machine guns, and assemble/disassemble weapons. This course includes demonstrations and exercises on range performance.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (12/95).

AR-2204-0085

AMMUNITION WARRANT OFFICER ENTRY (AMMUNITION MANAGER)

Course Number: GPL.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 4-5 weeks (174-167 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to prepare hazardous material for transportation, establish tactical ammunition supply points, configure magazine storage, and accomplish training and directing ammunition platoons in ammunition operations.

Instruction: Lectures and practical exercises in ammunition storage, fitness reports, preparing ammunition messages, preparing operational milestones, ammunition disposal, weapon type determination, transportation planning and determination of sources of supply.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/91).

AR-2204-0086

AMMUNITION NONCOMMISSIONED OFFICER (NCO)

Course Number: GPK.

Location: Missile and Munitions School, Redstone Arsenal, AL.

Length: 4 weeks (152 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to apply and enforce all functional areas in the care, handling, preservation, security, and storage of ammunition, explosives and their components.

Instruction: Lectures and practical exercises in ammunition inspections, allowance management, stock control, physical security, magazine storage operations and field storage operations.

Credit Recommendation: Credit is not recommended because of the military-specific nature of the course (8/91).

AR-2205-0002

LIGHTER AIR-CUSHION VEHICLE NAVIGATOR

Course Number: 062-F4 (88K).

Location: Transportation and Aviation Logistics School, Ft. Eustis, VA; Transportation School, Ft. Story, VA.

Length: 5 weeks (180-190 hours).

Exhibit Dates: 1/90-Present.

Learning Outcomes: Upon completion of the course, the student will be able to carry out the duties and responsibilities of navigator of a lighter air-cushion vehicle with due regard for the operational limitations imposed by weight, speed, loading and trim angles, sea state, surf, turning circles and crab angles, and obstacle clearance. The student will be qualified to navigate and pilot a lighter air-cushion vehicle and understand the nautical rules of the road. The student will be proficient in the emergency procedures and corrective action to be taken in the event of fire, collision, plow in, towing, damage control, man overboard, and abandon ship. In addition, the student will be knowledgeable in the theory of radar and its application in maritime navigation and collision avoidance. Finally, the student will be qualified to supervise the vehicle in all phases of its water and overland operation. Student will hold a current unlimited marine radar observer's certificate.

Instruction: Lectures, demonstrations, and practical work in vehicle performance, operational safety, basic seamanship, radar, rules of the road, and navigators' duties and responsibilities.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in seamanship and navigation (3/94).

Related Occupations: 88K.

Army Enlisted MOS Exhibits

MOS-00B-002

DIVER

00B10
00B20
00B30
00B40

Exhibit Dates: 1/90–1/94.

Career Management Field: 51 (General Engineering), subfield 511 (Construction Engineering).

Description

Summary: Supervises or performs underwater reconnaissance, demolition, repair, and salvage. **Skill Level 10:** Performs as assistant to senior divers, operating power-driven air compressor and electric and engine-driven winches; makes simple repairs to diving gear and equipment; applies principles of water rescue and first aid; may perform as diver, using self-contained underwater breathing apparatus and surface-supplied air diving equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; using self-contained underwater breathing apparatus, performs reconnaissance, salvage, repair, and demolition operations; serves as senior diver; collects and reports on hydrographic conditions; makes charts and maps of underwater conditions; takes underwater photographs; prepares beach or river intelligence reports; keeps diving log; uses demolition techniques to clear underwater obstacles; employs sophisticated first aid treatment, particularly as related to diving operations. **Skill Level 30:** Able to perform the duties required for Skill Level 20; using surface-supplied air and diving equipment, performs underwater repair by caulking seams, patching holes, and clearing fouled equipment; directs or assists in underwater construction projects; rigs submerged objects for surfacing; employs underwater welding techniques and other special construction tools; operates decompression chamber; performs underwater inspection; estimates weight of underwater objects; and calculates method of lifting underwater material and objects. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises underwater reconnaissance, demolition, repair, and salvage in addition to scuba and standard diving activities; supervises diver's bell (or appropriate mechanical diving unit) and directs maintenance of diving equipment; interprets hydrographic charts, maps, and sketches; instructs in diving procedures and safety practices; prepares reports on diving operations.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in the use, operation, and maintenance of mechanical equipment; if duties included diving, 3 semester hours in scuba diving. In the lower-division baccalaureate/associate degree category, 2 semester hours in first aid. (NOTE: This recommendation for skill

level 10 is valid for the dates 1/90-10/91 only) (9/79).

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in the use, operation, and maintenance of mechanical equipment and 6 in scuba diving. In the lower-division baccalaureate/associate degree category, 3 semester hours in mapping, 3 in technical report writing, 3 in marine and oceanographic technologies, 4 in first aid, and 3 in scuba diving, and additional credit for detonation/demolition, photography, and scuba diving on the basis of institutional evaluation (9/79).

Recommendation, Skill Level 30

In the vocational certificate category, 12 semester hours in the use, operation, and maintenance of mechanical equipment, 12 in marine underwater repair and construction, and 6 in scuba diving. In the lower-division baccalaureate/associate degree category, 3 semester hours in physics, 3 in mapping, 3 in technical report writing, 6 in marine and oceanographic technologies, 6 in first aid, 3 in scuba diving, and 3 in human relations, and additional credit for detonation/demolition, photography, and scuba diving on the basis of institutional evaluation (9/79).

Recommendation, Skill Level 40

In the vocational certificate category, 18 semester hours in the use, operation, and maintenance of mechanical equipment, 18 in marine underwater repair and construction, and 6 in scuba diving. In the lower-division baccalaureate/associate degree category, 3 semester hours in mapping, 3 in marine geography, 6 in physics, 6 in technical report writing, 9 in marine and oceanographic technologies, 6 in first aid and safety, 3 in scuba diving, 3 in human relations, 3 in personnel supervision, and 6 for field experience in management, and additional credit for detonation/demolition/salvage, photography, and scuba diving on the basis of institutional evaluation (9/79).

MOS-00B-003

DIVER

00B20
00B30
00B40
00B50

Exhibit Dates: Pending Evaluation. 2/94–Present.

MOS-00D-001

SPECIAL DUTY ASSIGNMENT

00D20
00D40

Exhibit Dates: 1/90–Present.

Career Management Field: 00 (Exceptional Management Specialties), subfield 000 (Special Assignment).

Description

Summary: This MOS code is used to identify duty positions for special assignments; its use is approved on an individual case basis by the Headquarters of the Department of the Army. Before this code is assigned, a position must encompass duties that are highly specialized, that cannot be classified elsewhere, that do not correspond with formal military courses, and that occur so rarely and in such small numbers that establishment of a separate MOS is not practical. **Skill Level 20:** Used to identify all journeymen and technician levels of skill. **Skill Level 40:** Used to identify all leader levels of skill.

Recommendation, Skill Level 20

Credit on the basis of institutional evaluation of the individual student seeking competency recognition (5/76).

Recommendation, Skill Level 40

Credit on the basis of institutional evaluation of the individual student seeking competency recognition (5/76).

MOS-00E-002

RECRUITER

00E20
00E30
00E40
00E50

Exhibit Dates: 1/90–10/91.

Career Management Field: 79 (Recruitment and Retention).

Description

Summary: Recruits or supervises the recruitment of personnel for the Army. **Skill Level 20:** Contacts and conducts interviews of individuals who are prospective enlistees into the Army; contacts representatives of schools, corporations, civic groups and other agencies to present career and employment opportunities of the Army; presents formal and informal talks to organizations, groups, or individuals; writes, edits, and presents recruiting material for use by local communications media; interviews and counsels individuals on enlistment incentives, Army benefits, and educational opportunities; evaluates applicants, using screening tests; prepares forms and documents as part of enlistment processing; counsels disqualified applicants; assists in market research and analysis of recruiting area. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides technical guidance to Skill Level 20 personnel. **Skill Level 40:** Able to perform the duties required for Skill Level 30; may serve as Recruiting Station Commander, Professional Development Sergeant, or Reception Station Liaison Sergeant, supervising five to eight persons; plans and organizes recruitment programs; maintains statistics on recruiting; prepares enlistment reports and official correspondence; prepares station plans, and conducts

professional development programs; supervises subordinate personnel, provides guidance for improvement, and evaluates their performance. *Skill Level 30:* Able to perform the duties required for Skill Level 40; may serve as principal noncommissioned officer of a recruiting region, Senior Professional Development Sergeant, Staff Operations Sergeant, or Management Noncommissioned Officer for recruiting; may supervise up to 30 persons; assists area commander in the areas of training, production, and personnel status; plans and conducts recruiting seminars and conferences; develops presentations reflecting requirements, sales techniques, and enlistment contract options; identifies, investigates, and takes corrective action in problem areas; trains, assigns duties, and evaluates performance of subordinates; develops recruiter training programs.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of advertising, 2 in social psychology, 3 in sales techniques, 3 in public speaking, 3 in records management, and 2 in audiovisual techniques. In the upper-division baccalaureate category, 3 semester hours in advertising media, 3 for field experience in recruiting, and 2 in vocational counseling (7/79).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of advertising, 2 in social psychology, 3 in sales techniques, 3 in public speaking, 3 in records management, and 2 in audiovisual techniques. In the upper-division baccalaureate category, 3 semester hours in advertising media, 3 for field experience in recruiting, 2 in vocational counseling, and 2 in publicity release writing (7/79).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of advertising, 3 in social psychology, 3 in sales techniques, 3 in public speaking, 3 in records management, 3 in audiovisual techniques, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in advertising media, 3 for field experience in recruiting, 2 in vocational counseling, 2 in publicity release writing, and 3 in personnel management (7/79).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of advertising, 3 in social psychology, 3 in sales techniques, 3 in public speaking, 3 in records management, 3 in audiovisual techniques, 3 in personnel supervision, and 3 in office practice. In the upper-division baccalaureate category, 3 semester hours in advertising media, 3 for field experience in recruiting, 2 in vocational counseling, 2 in publicity release writing, 3 in personnel management, and 3 in office management (7/79).

MOS-00E-003

RECRUITER (RESERVE COMPONENT)

00E20
00E30
00E40
00E50

Exhibit Dates: 11/91-7/94.

Career Management Field: 79 (Recruitment and Reenlistment).

Description

Summary: Recruits or supervises the recruitment of personnel for the Army. *Skill Level 20:* Contacts individuals and conducts interviews with those who are prospective enlistees into the Army; contacts representatives of schools, corporations, civic groups, and other agencies to present the career and employment opportunities of the Army; presents formal and informal talks to organizations, groups, or individuals; writes, edits, and presents recruiting material for use by local communications media; interviews and counsels individuals on enlistment incentives, Army benefits, and educational opportunities; evaluates applicants, using screening tests; prepares forms and documents as part of enlistment processing; counsels disqualified applicants; assists in market research and analysis of recruiting area. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance to Skill Level 20 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; may serve as Recruiting Station Commander, Professional Development Sergeant, or Reception Station Liaison Sergeant, supervising five to eight persons; plans and organizes recruitment programs; maintains statistics on recruiting; prepares enlistment reports and official correspondence; prepares station plans, and conducts professional development programs; supervises subordinate personnel; provides guidance for improvement, and evaluates their performance. *Skill Level 50:* Able to perform the duties required for Skill Level 40; may serve as principal noncommissioned officer of a recruiting region, Senior Professional Development Sergeant, Staff Operations Sergeant, or Management Noncommissioned Officer for recruiting; may supervise up to 30 persons; assists area commander in the areas of training, production, and personnel status; plans and conducts recruiting seminars and conferences; develops presentations reflecting requirements, marketing techniques, and enlistment contract options; identifies, investigates, and takes corrective action in problem areas; trains, assigns duties, and evaluates performance of subordinates; develops recruiter training programs.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of advertising, 2 in social psychology, 3 in marketing techniques, 3 in public speaking, 2 in record keeping, and 2 in audiovisual techniques. In the upper-division baccalaureate category, 3 semester hours in advertising media, 3 for field experience in marketing, and 2 in vocational counseling (11/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of advertising, 2 in social psychology, 3 in marketing techniques, 3 in public speaking, 2 in record keeping, and 2 in audiovisual techniques. In the upper-division baccalaureate category, 3 semester hours in advertising media, 3 for field experience in marketing, 2 in vocational counseling, and 2 in publicity release writing (11/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of advertising, 3 in social psychology, 3 in marketing techniques, 3 in public speaking, 3 in

record keeping, 3 in audiovisual techniques, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in advertising media, 3 for field experience in marketing, 2 in vocational counseling, 2 in publicity release writing, and 3 in personnel management (11/91).

Recommendation, Skill Level 50

In the lower division baccalaureate/associate degree category, 3 semester hours in principles of advertising, 3 in social psychology, 3 in marketing techniques, 3 in public speaking, 3 in record keeping, 3 in audiovisual techniques, 3 in personnel supervision, and 3 in clerical procedures. In the upper-division baccalaureate category, 3 semester hours in advertising media, 3 for field experience in marketing, 2 in vocational counseling, 2 in publicity release writing, 3 in personnel management, and 3 in human resource management (11/91).

MOS-00E-004

RECRUITER (RESERVE COMPONENT)

00E30
00E40
00E50

Exhibit Dates: Pending Evaluation. 8/94-12/95.

MOS-00R-001

RECRUITER/RETENTION NCO

00R20
00R30
00R40
00R50

Exhibit Dates: 1/90-10/91.

Career Management Field: 79 (Recruitment and Retention).

Description

Summary: Recruits or reenlists personnel for military service in the Army. NOTE: MOS 00E (Recruiter) and MOS 79D (Reenlistment NCO) have been incorporated into MOS 00R. The combining of the two former MOS's results in a career track in which an individual has principal assignment either in recruiting or in retention, with special duties available in counseling, recruiting, training management, instructing, professional development advising, or supervising as the principal noncommissioned officer of a recruiting facility or a recruiting area/region. The recruiting track includes skill levels 20, 30, 40, and 50; the retention track, skill levels 30, 40, and 50. Because of the principal assignment option after skill level 20, descriptions and recommendations below are cited in two groups at skill levels 30, 40, and 50. *Skill Level 20:* (Recruiter): Contacts and interviews individuals as prospective enlistees; contacts representatives of schools, corporations, civic groups, and other agencies to present employment and career opportunities of the Army; presents formal and informal talks to organizations and groups; distributes recruiting publicity materials; establishes liaison with communications media and prepares local news releases; evaluates applicants, using screening tests and vocational aptitude tests; prepares forms and documents as part of the enlistment process; arranges for transportation, meals, and lodging of enlistees; assists in market research and analysis of recruiting area. *Skill Level 30:* Able to perform the duties required for Skill Level 20; (Recruiter): Provides technical guidance to

lower skill level personnel. (Retention): Knows Army occupations, career fields and skill levels; explains reenlistment options, benefits, and obligations; counsels persons who will be separating from the Army about reserve component benefits; explains training options, vocational opportunities, and reenlistment bonuses; counsels respective reenlistees and assists in designing career plan; processes forms, documents, and records for reenlistment; prepares status charts and statistics; conducts training and inspections; advises unit commanders on status of reenlistment programs; recommends corrective actions in deficient areas. *Skill Level 40:* Able to perform the duties required for Skill Level 30; (Recruiter): Commands a recruiting station and maintains records, statistics, administrative files, and publications library; prepares enlistment reports; supervises and evaluates subordinate personnel; conducts professional development programs for lower skill level personnel; prepares official correspondence and reports; assigns duties to subordinates; and supervises personnel. (Retention): Advises commanders on status of reenlistment programs; conducts training for commanders, staff persons, noncommissioned officers and others, when assigned as principal noncommissioned officer in a large facility or region. *Skill Level 50:* Able to perform the duties required for Skill Level 40; (Recruiter): Supervises recruiting programs and personnel at several recruiting stations within an area; assists area commanders with training, operations, administration, and personnel matters; plans and conducts recruiting conferences and seminars; develops presentations which reflect changing sales techniques, enlistment contracts, and enlistment requirements; supervises subordinates; identifies and takes corrective actions in problem areas; evaluates subordinates; develops training programs; and inspects recruiting stations to ensure efficient operation and management. (Retention): Supervises, assigns duties, and evaluates performance of subordinate personnel; organizes and coordinates retention/career counseling activities; conducts reenlistment seminars and serves as policy advisor in reenlistment matters; coordinates the use and management of reenlistment funds; presents information talks as needed on reenlistment programs.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, (Recruiter/Retention): 2 semester hours in social psychology, 2 in audiovisual techniques, 3 in sales techniques, 3 in public speaking, and 2 in record keeping. In the upper-division baccalaureate category, 3 semester hours for field experience in recruiting and 3 in records management (9/83).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, (Recruiter/Retention): 2 semester hours in social psychology, 3 in sales techniques, 3 in public speaking, 2 in audiovisual techniques, and 3 in record keeping. In the upper-division baccalaureate category, (Recruiter): 3 semester hours for field experience in recruiting and 3 in records management. (Retention): 3 semester hour in records management and 3 in vocational guidance (9/83).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, (Recruiter/Retention): 3

semester hours in social psychology, 3 in record keeping, 3 in sales techniques, 3 in public speaking, and 3 in audiovisual techniques. (Recruiter only): 3 semester hours in personnel supervision. In the upper-division baccalaureate category, (Recruiter): 3 semester hours for field experience in recruiting, 3 in records management, and 3 in personnel management. (Retention): 3 semester hours in records management and 3 in vocational guidance (9/83).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, (Recruiter/Retention) 3 semester hours in social psychology, 3 in record keeping, 3 in sales techniques, 3 in public speaking, 3 in audiovisual techniques, and 3 in personnel supervision. (Recruiter only): 3 semester hours in office procedures. In the upper-division baccalaureate category, (Recruiter): 3 semester hours for field experience in recruiting, 3 in records management, 3 in personnel management, and 3 in office management. (Retention): 3 semester hours in records management, 3 in vocational guidance, and 3 in personnel management (9/83).

MOS-00R-002

RECRUITER/RETENTION NCO

00R20

00R30

00R40

00R50

Exhibit Dates: 11/91-7/94.

Career Management Field: 79 (Recruitment and Reenlistment).

Description

Summary: Recruits or reenlists personnel for military service in the Army. NOTE: Individuals have principal assignment either in recruiting or in retention, with special duties available in counseling, recruiting, training management, instructing, professional development advising, or serving in a supervisory role as the principal noncommissioned officer of a recruiting facility or a recruiting area/region. The recruiting track includes skill levels 20, 30, 40, and 50; the retention track includes skill levels 30, 40, and 50. Because of the principal assignment option after skill level 20, descriptions and recommendations below are cited in two groups at skill levels 30, 40, and 50. Individuals in this MOS do not necessarily start at skill level 20 and work up through the skill levels; they may transfer from any MOS at a comparable skill level. *Skill Level 20:* (Recruiter): Contacts and interviews individuals as prospective enlistees; contacts representatives of schools, corporations, civic groups, and other agencies to present employment and career opportunities of the Army; presents formal and informal talks to organizations and groups; distributes recruiting publicity materials; establishes liaison with communications media and prepares local news releases; evaluates applicants, using screening tests and vocational aptitude tests; prepares forms and documents as part of the enlistment process; arranges for transportation, meals, and lodging of enlistees; assists in market research and analysis of recruiting area. *Skill Level 30:* Able to perform the duties required for Skill Level 20; (Recruiter): Provides technical guidance to five to ten subordinates. (Retention): Knows Army occupations, career fields, and skill levels; explains reenlistment options, benefits and obligations; counsels persons who will

be separating from the Army about reserve component benefits; explains training options, vocational opportunities, and reenlistment bonuses; counsels respective reenlistees and assists in designing career plans; processes forms, documents, and records for reenlistment; prepares status charts and statistics; conducts training and inspections; advises unit commanders on status of reenlistment programs; uses computer-based system to contact Central Personnel Command for legal determinations of reenlistment contracts; recommends corrective actions in areas that are deficient. *Skill Level 40:* Able to perform the duties required for Skill Level 30; (Recruiter): Commands a recruiting station and maintains records, statistics, administrative files, and publications library; prepares enlistment reports; supervises and evaluates subordinate personnel; conducts professional development programs for 10 to 12 subordinates; prepares official correspondence and reports; assigns duties to subordinates and supervises resources. (Retention): Advises commanders on status of reenlistment programs; conducts training for commanders, staff persons, noncommissioned officers, and others when assigned as principal noncommissioned officer in a large facility or region. *Skill Level 50:* Able to perform the duties required for Skill Level 40; (Recruiter): Supervises recruiting programs and personnel at several recruiting stations within an area; assists area commanders with training, operations, administration, and personnel matters; plans and conducts recruiting conferences and seminars; develops presentations which reflect sales techniques, enlistment contracts, and enlistment requirements; supervises and evaluates subordinates; identifies and takes corrective actions in problem areas; develops training programs and inspects recruiting stations to ensure efficient operation and management. (Retention): Supervises, assigns duties, and evaluates the performance of 12-34 subordinates; organizes and coordinates retention/career counseling activities; conducts reenlistment seminars and serves as policy advisor in reenlistment matters; coordinates the use and management of reenlistment funds; presents informational talks as needed on reenlistment programs.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, (Recruiter): 2 semester hours in social psychology, 2 in audiovisual techniques, 3 in marketing techniques, 3 in public speaking, and 2 in record keeping. In the upper-division baccalaureate category, (Recruiter): 3 semester hours in records management and 3 for field experience in marketing (11/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, (Recruiter/Retention): 2 semester hours in social psychology, 2 in audiovisual techniques, 3 in marketing techniques, 3 in public speaking, and 3 in record keeping. (Retention only): 1 semester hour in computer applications. In the upper-division baccalaureate category, (Recruiter): 3 semester hours in records management and 3 for field experience in marketing. (Retention): 3 semester hours in records management and 3 in vocational counseling; if progressed from 00R20, add 3 semester hours for field experience in marketing (11/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, (Recruiter/Retention): 3 semester hours in social psychology, 3 in audio-visual techniques, 3 in marketing techniques, 3 in public speaking, and 3 in record keeping (Recruiter only): 3 semester hours in personnel supervision. (Retention only): 1 semester hour in computer applications. In the upper-division baccalaureate category, (Recruiter): 3 semester hours in records management, 3 for field experience in marketing, and 3 in personnel management. (Retention): 3 semester hours in records management and 3 in vocational counseling; if progressed from 00R20, add 3 semester hours for field experience in marketing (11/91).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, (Recruiter/Retention): 3 semester hours in social psychology, 3 in audio-visual techniques, 3 in marketing techniques, 3 in public speaking, 3 in record keeping, and 3 in personnel supervision. (Recruiter only): 3 semester hours in office procedures. (Retention only): 1 semester hour in computer applications. In the upper-division baccalaureate category, (Recruiter): 3 semester hours in records management, 3 for field experience in marketing, 3 in personnel management, and 3 in office procedures. (Retention): 3 semester hours in records management, 3 in vocational counseling, and 3 in personnel management; if progressed from 00R20, add 3 semester hours for field experience in marketing (11/91).

MOS-00R-003

RECRUITER/RETENTION NCO

00R40

00R50

Exhibit Dates: Pending Evaluation. 8/94-12/95.

MOS-00Z-001

COMMAND SERGEANT MAJOR

00Z50

Exhibit Dates: 1/90-10/91.

Career Management Field: 00 (Exceptional Management Specialties), subfield 000 (Special Assignment).

Description

Is an experienced mid-level manager responsible for advising high-level administrators on matters of personnel assignment, utilization, promotion, and training and on operations and logistics; supervises subordinate staff members and evaluates their performance; evaluates the operational effectiveness of the organization. NOTE: Required to have attained Skill Level 50 in at least one other MOS.

Recommendation

In the upper-division baccalaureate category, 18 semester hours in personnel management, 3 in staff principles, procedures, and organization, and 3 in office administration (2/75).

MOS-00Z-002

COMMAND SERGEANT MAJOR

00Z50

Exhibit Dates: 11/91-Present.

Career Management Field: 00 (Exceptional Management Specialties).

Description

Serves as principal noncommissioned officer of a military organization at battalion or higher level; provides advice to commander on all matters pertaining to enlisted personnel, personnel assignment, utilization, and training and on operations and logistics; conducts meetings with Senior Sergeants and First Sergeants of component units, has span of influence over 600 or more subordinates of component units; supervises subordinate staff members and evaluates their performance; evaluates the operational effectiveness of the organization; provides advice and counsel to commander and staff on selection of unit First Sergeant, serves on promotion boards and provides counsel in matters of military law (UCMJ). NOTE: Required to have attained Skill Level 50 in at least one other MOS and completed the Command Sergeant's Major Academy.

Recommendation

In the upper-division baccalaureate category, 6 semester hours in personnel supervision, 6 for field experience in management, 3 in organizational management, 3 in principles of management, 3 in public speaking, and 3 in office management (11/91).

MOS-01H-002

BIOLOGICAL SCIENCES ASSISTANT

01H10

01H20

01H30

Exhibit Dates: 1/90-12/94. (Effective 12/94, MOS 01H was discontinued.)

Career Management Field: 91 (Medical).

Description

Summary: Performs professional-level laboratory and research duties in the field of biological science. **Skill Level 10:** Conducts studies in biology, bacteriology, biochemistry, entomology, or pharmacology; performs culture work on animal diseases; keeps records of culturing and of purity, density, and viability tests of cultures prepared for use as vaccines; inoculates and performs autopsies on laboratory animals used in the preparation of cultures; identifies, prepares, and ships cultures; makes bio-assays to determine toxicity of drugs and other substances; plans and executes experiments; calculates and administers doses and observes toxic effects produced; prepares detailed reports on experiments and tests. NOTE: The prerequisite for the assignment of this MOS is a bachelor's degree and a minimum of six months of related experience, or a master's degree in biology, bacteriology, zoology, parasitology, botany, pharmacology, or entomology. **Skill Level 20:** Able to perform the duties required for Skill Level 10; analyzes scientific data for publications; maintains inventories and equipment. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides overall research division supervision including quality control and training.

Recommendation, Skill Level 10

In the graduate degree category, 3 semester hours in biological research. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-10/91 only) (3/90).

Recommendation, Skill Level 20

In the graduate degree category, 6 semester hours in biological research (3/90).

Recommendation, Skill Level 30

In the graduate degree category, 9 semester hours in biological research (3/90).

MOS-02B-003

TRUMPET PLAYER

02B10

02B20

02B30

02B40

Exhibit Dates: 1/90-1/93.

Career Management Field: 97 (Band).

Description

Summary: Plays trumpet in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. **Skill Level 10:** Plays trumpet; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays instrument in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays with minimum preparation secondary parts to all styles of standard band literature; doubles on another musical instrument as assigned; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on trumpet. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays trumpet in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and volumes, and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. **Skill Level 40:** Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles.

(NOTE: This recommendation for skill level 10 is valid for the dates 1/90-10/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, 3 in personnel supervision, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. In the upper-division baccalaureate category, 3 semester hours in conducting and 3 in music administration and supervision (3/86).

MOS-02B-004

CORNET OR TRUMPET PLAYER

02B10
02B20
02B30
02B40

Exhibit Dates: 2/93-2/95.

Career Management Field: 97 (Band).

Description

Summary: Plays cornet or trumpet in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays cornet or trumpet; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on cornet or trumpet. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical

guidance to Skill Level 10 personnel; plays cornet or trumpet in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), and 4 in performing ensembles (concert, jazz, and marching bands) (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02B-005

CORNET OR TRUMPET PLAYER

02B10
02B20
02B30
02B40

Exhibit Dates: 3/95-Present.

Career Management Field: 97 (Band).

Description

Summary: Plays cornet or trumpet in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays cornet or trumpet; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on cornet or trumpet. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays cornet or trumpet in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 4 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the

upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02C-003

BARITONE OR EUPHONIUM PLAYER

02C10

02C20

02C30

02C40

Exhibit Dates: 1/90-1/93

Career Management Field: 97 (Band)

Description

Summary: Plays baritone or euphonium in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays baritone or euphonium; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays instrument in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays with minimum preparation secondary parts to all styles of standard band literature; doubles on another musical instrument as assigned; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on baritone or euphonium. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays baritone or euphonium in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and volumes, and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music

theory, applied music (individual instruction in performance), and small performing ensembles (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-10/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory, (including ear training), 3 in concert band, 3 in marching band, 3 in personnel supervision, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. In the upper-division baccalaureate category, 3 semester hours in conducting and 3 in music administration and supervision (3/86).

MOS-02C-004

BARITONE OR EUPHONIUM PLAYER

02C10

02C20

02C30

02C40

Exhibit Dates: 2/93-2/95.

Career Management Field: 97 (Band).

Description

Summary: Plays baritone or euphonium in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays baritone or euphonium; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on baritone or euphonium. *Skill Level*

20: Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays baritone or euphonium in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), and 4 in performing ensembles (concert, jazz, and marching bands) (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02C-005

BARITONE OR EUPHONIUM PLAYER

02C10

02C20

02C30

02C40

Exhibit Dates: 3/95–Present.

Career Management Field: 97 (Band).

Description

Summary: Plays baritone or euphonium in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays baritone or euphonium; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on baritone or euphonium. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays baritone or euphonium in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 4 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied per-

formance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02D-003

FRENCH HORN PLAYER

02D10

02D20

02D30

02D40

Exhibit Dates: 1/90–1/93.

Career Management Field: 97 (Band).

Description

Summary: Plays French horn in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays French horn; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays instrument in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays with minimum preparation secondary parts to all styles of standard band literature; doubles on another musical instrument as assigned; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on French horn. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays French horn in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and volumes, and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evalua-

tion; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, 3 in personnel supervision, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. In the upper-division baccalaureate category, 3 semester hours in conducting and 3 in music administration and supervision (3/86).

MOS-02D-004

FRENCH HORN PLAYER

02D10

02D20

02D30

02D40

Exhibit Dates: 2/93–2/95.

Career Management Field: 97 (Band).

Description

Summary: Plays French horn in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays French horn; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of

minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on French horn. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays French horns in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), and 4 in performing ensembles (concert, jazz, and marching bands) (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02D-005

FRENCH HORN PLAYER

02D10
02D20
02D30
02D40

Exhibit Dates: 3/95-Present

Career Management Field: 97 (Band)

Description

Summary: Plays French horn in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays French horn; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on French horn. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays French horns in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 4 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02E-003

TROMBONE PLAYER

02E10
02E20
02E30
02E40

Exhibit Dates: 1/90-1/93.

Career Management Field: 97 (Band).

Description

Summary: Plays trombone in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays trombone; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays instrument in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays with minimum preparation secondary parts to all styles of standard band literature; doubles on another musical instrument as assigned; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on trombone. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays trombone in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and volumes, and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, 3 in personnel supervision, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. In the upper-division baccalaureate category, 3 semester hours in conducting and 3 in music administration and supervision (3/86).

MOS-02E-004**TROMBONE PLAYER**

02E10
02E20
02E30
02E40

Exhibit Dates: 2/93-2/95.

Career Management Field: 97 (Band).

Description

Summary: Plays trombone in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. **Skill Level 10:** Plays trombone; marches in military band in response to drum major's signals and oral commands;

reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on trombone. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays trombone in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. **Skill Level 40:** Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), and 4 in performing ensembles (concert, jazz, and marching bands) (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and

jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02E-005**TROMBONE PLAYER**

02E10
02E20
02E30
02E40

Exhibit Dates: 3/95-Present.

Career Management Field: 97 (Band).

Description

Summary: Plays trombone in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. **Skill Level 10:** Plays trombone; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on trombone. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays trombone in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. **Skill Level 40:** Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 4 in performing ensembles (concert, jazz, and marching

bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02F-003

TUBA PLAYER

02F10
02F20
02F30
02F40

Exhibit Dates: 1/90-1/93.

Career Management Field: 97 (Band).

Description

Summary: Plays tuba in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays tuba; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays instrument in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays with minimum preparation secondary parts to all styles of standard band literature; doubles on another musical instrument as assigned; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on tuba. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays tuba in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and volumes, and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation, because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation, because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, 3 in personnel supervision, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. In the upper-division baccalaureate category, 3 semester hours in conducting and 3 in music administration and supervision (3/86).

MOS-02F-004

TUBA PLAYER

02F10
02F20
02F30
02F40

Exhibit Dates: 2/93-2/95.

Career Management Field: 97 (Band).

Description

Summary: Plays tuba in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays tuba; marches in military band in response to drum major's signals and oral commands; reads, interprets,

and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on tuba. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays tuba in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), and 4 in performing ensembles (concert, jazz, and marching bands) (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02F-005

TUBA PLAYER
02F10
02F20
02F30
02F40

Exhibit Dates: 3/95–Present.

Career Management Field: 97 (Band).

Description

Summary: Plays tuba in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays tuba; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on tuba. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays tuba in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 4 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02G-003

FLUTE OR PICCOLO PLAYER
02G10
02G20
02G30
02G40

Exhibit Dates: 1/90–1/93.

Career Management Field: 97 (Band).

Description

Summary: Plays flute or piccolo in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays flute or piccolo; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays instrument in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays with minimum preparation secondary parts to all styles of standard band literature; doubles on another musical instrument as assigned; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on flute or piccolo. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays flute or piccolo in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and volumes, and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, 3 in personnel supervision, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. In the upper-division baccalaureate category, 3 semester hours in conducting and 3 in music administration and supervision (3/86).

MOS-02G-004

FLUTE OR PICCOLO PLAYER
02G10
02G20
02G30
02G40

Exhibit Dates: 2/93–2/95.

Career Management Field: 97 (Band).

Description

Summary: Plays flute or piccolo in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays flute or piccolo; marches in military band in response to drum major's signals and oral com-

mands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on flute or piccolo. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays flute or piccolo in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), and 4 in performing ensembles (concert, jazz, and marching bands) (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and

jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02G-005

FLUTE OR PICCOLO PLAYER

02G10

02G20

02G30

02G40

Exhibit Dates: 3/95–Present.

Career Management Field: 97 (Band).

Description

Summary: Plays flute or piccolo in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays flute or piccolo; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on flute or piccolo. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays flute or piccolo in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 4 in performing ensembles (concert, jazz, and marching

bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02H-003

OBOE PLAYER

02H10

02H20

02H30

02H40

Exhibit Dates: 1/90–1/93.

Career Management Field: 97 (Band).

Description

Summary: Plays oboe in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays oboe; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays instrument in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays with minimum preparation secondary parts to all styles of standard band literature; doubles on another musical instrument as assigned; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on oboe. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays oboe in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and volumes, and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, 3 in personnel supervision, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. In the upper-division baccalaureate category, 3 semester hours in conducting and 3 in music administration and supervision (3/86).

MOS-02H-004

OBOE PLAYER
02H10
02H20
02H30
02H40

Exhibit Dates: 2/93-2/95.

Career Management Field: 97 (Band).

Description

Summary: Plays oboe in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays oboe; marches in military band in response to drum major's signals and oral commands; reads, interprets,

and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on oboe. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays oboe in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), and 4 in performing ensembles (concert, jazz, and marching bands) (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02H-005

OBOE PLAYER
02H10
02H20
02H30
02H40

Exhibit Dates: 3/95-Present.

Career Management Field: 97 (Band).

Description

Summary: Plays oboe in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays oboe; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on oboe. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays oboe in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 4 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02J-003**CLARINET PLAYER**

02J10
02J20
02J30
02J40

Exhibit Dates: 1/90-1/93.

Career Management Field: 97 (Band).

Description

Summary: Plays clarinet in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays clarinet; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays instrument in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays with minimum preparation secondary parts to all styles of standard band literature; doubles on another musical instrument as assigned; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on clarinet. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays clarinet in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and volumes, and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent

of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, 3 in personnel supervision, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. In the upper-division baccalaureate category, 3 semester hours in conducting and 3 in music administration and supervision (3/86).

MOS-02J-004**CLARINET PLAYER**

02J10
02J20
02J30
02J40

Exhibit Dates: 2/93-2/95.

Career Management Field: 97 (Band).

Description

Summary: Plays clarinet in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays clarinet; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts

to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on clarinet. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays clarinet in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), and 4 in performing ensembles (concert, jazz, and marching bands) (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02J-005**CLARINET PLAYER**

02J10
02J20
02J30
02J40

Exhibit Dates: 3/95–Present.

Career Management Field: 97 (Band).

Description

Summary: Plays clarinet in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays clarinet; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on clarinet. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays clarinet in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 4 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02K-003**BASSOON PLAYER**

02K10
02K20
02K30
02K40

Exhibit Dates: 1/90–1/93.

Career Management Field: 97 (Band).

Description

Summary: Plays bassoon in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays bassoon; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays instrument in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays with minimum preparation secondary parts to all styles of standard band literature; doubles on another musical instrument as assigned; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on bassoon. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays bassoon in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and volumes, and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent

of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, 3 in personnel supervision, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. In the upper-division baccalaureate category, 3 semester hours in conducting and 3 in music administration and supervision (3/86).

MOS-02K-004**BASSOON PLAYER**

02K10
02K20
02K30
02K40

Exhibit Dates: 2/93–2/95.

Career Management Field: 97 (Band).

Description

Summary: Plays bassoon in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays bassoon; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts

to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on bassoon. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays bassoon in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), and 4 in performing ensembles (concert, jazz, and marching bands) (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02K-005

BASSOON PLAYER

02K10

02K20

02K30

02K40

Exhibit Dates: 3/95-Present

Career Management Field: 97 (Band)

Description

Summary: Plays bassoon in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays bassoon, marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on bassoon. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays bassoon in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 4 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02L-003

SAXOPHONE PLAYER

02L10

02L20

02L30

02L40

Exhibit Dates: 1/90-1/93.

Career Management Field: 97 (Band).

Description

Summary: Plays saxophone in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays saxophone; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays instrument in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays with minimum preparation secondary parts to all styles of standard band literature; doubles on another musical instrument as assigned; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on saxophone. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays saxophone in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and volumes, and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, 3 in personnel supervision, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. In the upper-division baccalaureate category, 3 semester hours in conducting and 3 in music administration and supervision (3/86).

MOS-02L-004**SAXOPHONE PLAYER**

02L10
02L20
02L30
02L40

Exhibit Dates: 2/93-2/95.

Career Management Field: 97 (Band).

Description

Summary: Plays saxophone in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays saxophone; marches in military band in response to drum major's signals and oral com-

mands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on saxophone. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays saxophone in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), and 4 in performing ensembles (concert, jazz, and marching bands) (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and

jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02L-005**SAXOPHONE PLAYER**

02L10
02L20
02L30
02L40

Exhibit Dates: 3/95-Present.

Career Management Field: 97 (Band).

Description

Summary: Plays saxophone in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays saxophone; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on saxophone. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays saxophone in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 4 in performing ensembles (concert, jazz, and marching

bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02M-003

PERCUSSION PLAYER

02M10
02M20
02M30
02M40

Exhibit Dates: 1/90-1/93.

Career Management Field: 97 (Band).

Description

Summary: Performs on specified percussion instrument(s) in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays percussion instruments; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays instrument in marching, concert, or dance/jazz band as appropriate; plays, at sight, indefinite pitch percussion parts of standard band literature; plays, with minimum preparation, definite and indefinite pitch percussion parts of standard band literature; performs preventive maintenance on all percussion instruments. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays instrument in small instrumental groups as appropriate; plays, with minimum preparation, any percussion part to medium and difficult concert band literature; performs music library duties as assigned. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises percussion section; serves in various intermediate staff/administrative positions within the band as assigned; organizes, instructs, and rehearses the percussion section; organizes and leads small instrumental groups; plays at sight, intermediate definite and indefinite pitch percussion parts of all styles of music; plays, with minimum preparation, any moderately difficult to difficult percussion music; balances chords and volumes and interprets complex rhythms; supervises preventive maintenance of instruments in the percussion section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, 3 in personnel supervision, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. In the upper-division baccalaureate category, 3 semester hours in conducting and 3 in music administration and supervision (3/86).

MOS-02M-004

PERCUSSION PLAYER

02M10
02M20
02M30
02M40

Exhibit Dates: 2/93-2/95.

Career Management Field: 97 (Band).

Description

Summary: Plays percussion instrument(s) in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays percussion instruments; marches in military band in response to drum major's signals

and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory, discriminates and matches pitches; performs preventive maintenance on percussion instruments. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays percussion instruments in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), and 4 in performing ensembles (concert, jazz, and marching bands) (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and

jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02M-005

PERCUSSION PLAYER

02M10

02M20

02M30

02M40

Exhibit Dates: 3/95–Present.

Career Management Field: 97 (Band).

Description

Summary: Plays percussion instrument(s) in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. **Skill Level 10:** Plays percussion instruments; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on percussion instruments. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays percussion instruments in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. **Skill Level 40:** Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 4 in perform-

ing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02N-003

PIANO PLAYER

02N10

02N20

02N30

02N40

Exhibit Dates: 1/90–1/93.

Career Management Field: 97 (Band).

Description

Summary: Plays keyboard or percussion instrument(s) in appropriate musical organizations; performs in military marching and concert musical organizations, and, as qualified, in associated choral, jazz, and other small ensembles. **Skill Level 10:** Plays keyboard or percussion instruments; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays piano in dance/stage bands, ensembles, and combos; plays percussion instrument in marching band; plays, with minimum preparation, easy percussion parts to standard concert band music on keyboard type mallet instruments; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on musical instruments. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays instrument in small instrumental group as appropriate; improvises on the piano utilizing chord progressions; performs music library duties as assigned. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises consolidated piano/guitar section; serves in various intermediate staff/administrative positions within band as assigned; organizes, tunes, instructs, and rehearses section; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and volumes and interprets complex rhythms; supervises preventive maintenance of instruments in section. **Skill Level 40:** Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. In the upper-division baccalaureate category, 3 semester hours in conducting and 3 in music administration and supervision (6/78).

MOS-02N-004

PIANO PLAYER

02N10

02N20

02N30

02N40

Exhibit Dates: 2/93–2/95.

Career Management Field: 97 (Band).

Description

Summary: Plays piano in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. **Skill Level 10:** Plays piano; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays

in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on piano. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays piano in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), and 4 in performing ensembles (concert, jazz, and marching bands) (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02N-005

PIANO PLAYER

02N10

02N20

02N30

02N40

Exhibit Dates: 3/95–Present.

Career Management Field: 97 (Band)

Description

Summary: Plays piano in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays piano; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on piano. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays piano in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 4 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02S-003

SPECIAL BANDPERSON

02S20

02S30

02S40

02S50

Exhibit Dates: 1/90–1/93.

Career Management Field: 97 (Band).

Description

Summary: Performs as musician or in allied field as member of a special band. **NOTE:** Persons holding MOS 02S are also eligible for credit for their secondary MOS's, which identify their particular musical instruments. Consult the appropriate exhibit for the credit recommendation. *Skill Level 20:* Plays brass, woodwind, percussion, keyboard, or stringed instrument and executes marching movements in military formations; performs as instrumentalist in field music detachment or special band, or as technician in special band support activities; doubles on related instruments; provides technical guidance to musicians in field music detachment; performs as vocalist when appropriate; classifies music or performs as copyist, librarian, and commentator/annotator; performs basic instrument maintenance. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists with music procurement; provides technical guidance to subordinate personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs as arranger or solo instrumental specialist; provides technical guidance to subordinate instrumental specialists. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as principal noncommissioned officer in instrumental, choral or music support section, instrumental group, or special band; instructs, trains, rehearses, and conducts instrumental groups to achieve recognized standards; organizes separate musical groups, as needed; rehearses and trains section members to achieve correct musical rendition, coordination, and styles; conducts band as assistant bandleader in formations and ceremonies; supervises band segment in separate support activities, including designing, constructing, and assembling necessary facilities for band presentation; using public relations techniques, arranges performances.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in marching band, 3 in concert band, 2 in ensemble electives, and 4 in music theory (basic harmony and ear training), and additional credit in band, music theory, electronics, and small performing ensembles (jazz, brass, woodwind, percussion, keyboard, string, and vocal) on the basis of institutional evaluation (9/81).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in marching band, 3 in concert band, 2 in ensemble electives, and 4 in music theory (basic harmony and ear training), and additional credit in band, music theory, electronics, and small performing ensembles (jazz, brass, woodwind, percussion, keyboard, string, and vocal) on the basis of institutional evaluation (9/81).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in marching band, 3 in concert band, 2 in ensemble electives, and 8 in music theory (basic harmony and ear training), and additional credit in band, music theory, electronics, and small performing ensembles (jazz, brass, woodwind, percussion, keyboard, string, and vocal) on the basis of institutional evaluation (9/81).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in marching band, 3 in concert band, 2 in ensemble electives, and 8 in music theory (basic harmony and ear training), and additional credit in band, music theory, electronics, and small performing ensembles (jazz, brass, woodwind, percussion, keyboard, string, and vocal) on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in conducting, 3 in music administration and supervision, and credit on the basis of institutional evaluation of the individual's experience and area of specialization in the following subject areas: applied music, advanced music theory, composition, arranging, education, human relations, and management (9/81).

MOS-02S-004**SPECIAL BANDMEMBER**

02S20

02S30

02S40

02S50

Exhibit Dates: 2/93–2/95.**Career Management Field:** 97 (Band).**Description**

Summary: The special bandmember performs as a musician or in the direct support of the mission of the U.S. Army Band, U.S. Army Field Band, USMA Band, or the 3rd Infantry (The Old Guard) Fife and Drum Corps. Use of MOS 02S is restricted to special bands only. **Skill Level 20:** Plays brass, woodwind, percussion, keyboard, or stringed instrument and executes marching movements in military formations; performs as instrumentalist in field music detachment or special band, or as technician in special band support activities; doubles on related instruments; provides technical guidance to musicians in field music detachment; performs as vocalist when appropriate; classifies music or performs as copyist, librarian, and commentator/annotator; performs basic instrument maintenance. **Skill Level 30:** Able to perform the duties required for Skill Level 20; assists with music procurement; provides technical guidance to subordinate personnel. **Skill Level 40:** Able to perform the duties required for Skill Level 30; performs as arranger or solo instrumental specialist. **Skill Level 50:** Able to perform the duties required for Skill Level 40; serves as principal noncommissioned officer in

instrumental, choral or music support section, instrumental group, or special band; instructs, trains, rehearses, and conducts instrumental groups to achieve recognized standards; organizes separate musical groups, as needed; rehearses and trains section members to achieve correct musical styles; conducts band as assistant bandleader in formations and ceremonies; supervises band segment in separate support activities, including designing, constructing, and assembling necessary facilities for band presentation; using public relations techniques, arranges performances.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), and 4 in performing ensembles (concert, jazz, and marching bands) (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hours in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 16 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, if paygrade is E-8: 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 4 in arranging, 2 in organizational management, and 3 in logistics management; if paygrade is E-9: 2 semester hours in conducting, 4 in rehearsal techniques of conducting (concert and jazz), 6 in arranging, 4 in organizational management, 3 in logistics management, and 3 in music business management (2/93).

MOS-02S-005**SPECIAL BANDMEMBER**

02S20

02S30

02S40

02S50

Exhibit Dates: 3/95–Present.**Career Management Field:** 97 (Band).**Description**

Summary: The special bandmember performs as a musician or in the direct support of the mission of the U.S. Army Band, U.S. Army Field Band, USMA Band, or the 3rd Infantry (The Old Guard) Fife and Drum Corps. Use of MOS 02S is restricted to special bands only. **Skill Level 20:** Plays brass, woodwind, percussion, keyboard, or stringed instrument and executes marching movements in military formations; performs as instrumentalist in field music detachment or special band, or as technician in special band support activities; doubles on related instruments; provides technical guidance to musicians in field music detachment; performs as vocalist when appropriate; classifies music or performs as copyist, librarian, and commentator/annotator; performs basic instrument maintenance. **Skill Level 30:** Able to perform the duties required for Skill Level 20; assists with music procurement; provides technical guidance to subordinate personnel. **Skill Level 40:** Able to perform the duties required for Skill Level 30; performs as arranger or solo instrumental specialist. **Skill Level 50:** Able to perform the duties required for Skill Level 40; serves as principal noncommissioned officer in instrumental, choral or music support section, instrumental group, or special band; instructs, trains, rehearses, and conducts instrumental groups to achieve recognized standards; organizes separate musical groups, as needed; rehearses and trains section members to achieve correct musical styles; conducts band as assistant bandleader in formations and ceremonies; supervises band segment in separate support activities, including designing, constructing, and assembling necessary facilities for band presentation; using public relations techniques, arranges performances.

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 4 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hours in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 12 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate cate-

gory, if paygrade is E-8: 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 4 in arranging, 2 in organizational management, and 3 in logistics management, if paygrade is E-9: 2 semester hours in conducting, 4 in rehearsal techniques of conducting (concert and jazz), 6 in arranging, 4 in organizational management, 3 in logistics management, and 3 in music business management (2/93).

MOS-02T-003

GUITAR PLAYER

02T10
02T20
02T30
02T40

Exhibit Dates: 1/90-1/93.

Career Management Field: 97 (Band)

Description

Summary: Plays guitar or percussion instruments in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. **Skill Level 10:** Plays guitar or percussion instruments; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays guitar in dance/jazz bands, ensembles, and combos; plays percussion instrument in marching band; plays miscellaneous percussion instruments in concert band; plays, at sight, moderately easy melodic lines with chord symbols; plays, with minimum preparation, standard guitar music of any style; improvises on the guitar using chord progressions; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on musical instrument. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays instrument in small instrumental groups as appropriate; plays, at sight, moderately easy guitar music of any style; performs music library duties as assigned. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises consolidated piano/guitar section; serves in various intermediate staff/administrative positions within band as assigned; organizes, tunes, instructs, and rehearses section; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and volumes, and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. **Skill Level 40:** Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation, because of the wide range of individual

abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory, 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory, 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. In the upper-division baccalaureate category, 3 semester hours in conducting and 3 in music administration and supervision (6/78).

MOS-02T-004

GUITAR PLAYER

02T10
02T20
02T30
02T40

Exhibit Dates: 2/93-2/95.

Career Management Field: 97 (Band).

Description

Summary: Plays guitar in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. **Skill Level 10:** Plays guitar; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on

guitar. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays guitar in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. **Skill Level 40:** Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), and 4 in performing ensembles (concert, jazz, and marching bands) (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02T-005

GUITAR PLAYER

02T10
02T20
02T30
02T40

Exhibit Dates: 3/95–Present.

Career Management Field: 97 (Band).

Description

Summary: Plays guitar in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays guitar; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on guitar. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays guitar in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 4 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing

ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02U-001

ELECTRIC BASS GUITAR PLAYER

02U10

02U20

02U30

02U40

Exhibit Dates: 1/90–1/93.

Career Management Field: 97 (Band).

Description

Summary: Plays electric bass guitar in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays electric bass guitar; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays instrument in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays with minimum preparation secondary parts to all styles of standard band literature; doubles on another musical instrument as assigned; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on electric bass guitar. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays electric bass guitar in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrumental groups; plays, at sight, intermediate music of any style; balances chords and volumes, and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 2 in music theory, 1 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual

abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1-3 semester hours (equivalent of one semester) in applied study of major instrument, 3 in music theory, 2 in concert band, 2 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2-6 semester hours (equivalent of two semesters) in applied study of major instrument, 4 in music theory (including ear training), 3 in concert band, 3 in marching band, 3 in personnel supervision, and credit in small ensemble on the basis of institutional evaluation; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles. In the upper-division baccalaureate category, 3 semester hours in conducting and 3 in music administration and supervision (3/86).

MOS-02U-002

ELECTRIC BASS PLAYER

02U10

02U20

02U30

02U40

Exhibit Dates: 2/93–2/95.

Career Management Field: 97 (Band).

Description

Summary: Plays electric bass in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays electric bass; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and

matches pitches; performs preventive maintenance on electric bass. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays electric bass in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), and 4 in performing ensembles (concert, jazz, and marching bands) (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-8 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02U-003

ELECTRIC BASS PLAYER

02U10
02U20
02U30
02U40

Exhibit Dates: 3/95-Present

Career Management Field: 97 (Band)

Description

Summary: Plays electric bass in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 10:* Plays electric bass; marches in military band in response to drum major's signals and oral commands; reads, interprets, and plays instrumental music; plays in marching, concert, or dance/jazz band as appropriate; plays, at sight, secondary parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, secondary parts to all styles of standard band literature; applies knowledge of minimum basic music theory; discriminates and matches pitches; performs preventive maintenance on electric bass. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; plays electric bass in small instrumental groups as appropriate; plays, at sight, principal parts to ceremonial music and marches of medium difficulty; plays, with minimum preparation, principal parts to all styles of standard band literature; performs music library duties as assigned; assists in instrument repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises section as instrumental section leader; serves in various intermediate staff/administrative positions within the band as assigned; organizes, tunes, instructs, and rehearses section or consolidated section of related musical instruments; organizes and leads small instrument groups; plays, at sight, intermediate music of any style; balances chords and dynamic levels and interprets complex rhythms; supervises preventive maintenance of musical instruments in section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinate personnel; supervises section leaders; rehearses the stage band; assists in rehearsing the concert band; conducts the stage band in a performance; organizes, rehearses, and leads instrumental ensembles; organizes, tunes, and rehearses elements of the band in rehearsal; arranges and transcribes concert and dance/stage band music; tunes and prepares the concert band for rehearsal.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 4 in performing ensembles (concert, jazz, and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, 1 semester hour in conducting (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6 in perform-

ing ensembles (concert, jazz, and marching bands) and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 2 in arranging, and 3 in logistics management (2/93).

MOS-02Z-001

BANDS SENIOR SERGEANT
02Z50

Exhibit Dates: 1/90-1/93

Career Management Field: 97 (Band)

Description

Serves as the principal noncommissioned officer of an Army band; able to perform the duties required for 02P40 (Brass Group Leader), 02Q40 (Woodwind Group Leader), or 02R40 (Percussion Group Leader); selects, prepares, and presents concert, marching, dance, stage, and show band music and assumes any other musical or military functions of the bandmaster as delegated; assists in planning, coordinating, and supervising all activities in support of the band mission; applies public relations techniques to band employment; supervises on-the-job training; advises bandmaster on all personnel matters.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in marching band, 3 in concert band, 2 in ensemble electives, and 4 in music theory (basic harmony and ear training), and additional credit in music theory, applied music (individual instruction in performance), and small performing ensembles (jazz, brass, woodwind, percussion, string, and vocal) on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in conducting, 3 in music administration and supervision, 3 in introduction to management, 3 in personnel management, 3 in human relations or public relations, 6 for field experience in management, and additional credit in arranging and for field experience in education on the basis of institutional evaluation (6/76).

MOS-02Z-002

BANDS SENIOR SERGEANT
02Z50

Exhibit Dates: 2/93-Present

Career Management Field: 97 (Bands)

Description

Serves as the principal noncommissioned officer of an Army band; able to perform the duties required for Skill Level 40 of any MOS in Career Management Field 97; selects, prepares, and presents concert, marching, dance, stage, and show band music and assumes any other musical or military functions of the bandmaster as delegated; assists in planning, coordinating, and supervising all activities in support of the band mission; serves as publications liaison for the band; supervises on-the-job training; advises bandmaster on all personnel matters.

Recommendation

In the lower-division baccalaureate/associate degree category, 16 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 4-6 in applied performance (individual instruction), 6-

8 in performing ensembles (concert, jazz and marching bands), and 3 in personnel supervision. In the upper-division baccalaureate category, if paygrade is E-8: 2 semester hours in conducting, 2 in rehearsal techniques of conducting (concert and jazz), 4 in arranging, 2 in organizational management, and 3 in logistics management; if paygrade is E-9: 2 semester hours in conducting, 4 in rehearsal techniques of conducting (concert and jazz), 6 in arranging, 4 in organizational management, 3 in logistics management, and 3 in music business management (2/93).

MOS-05D-003

ELECTRONIC WARFARE/SIGNAL INTELLIGENCE
EMITTER IDENTIFIER/LOCATOR
05D10
05D20
05D30

Exhibit Dates: 1/90–3/90. Effective 3/90, MOS 05D was discontinued and its duties were incorporated into MOS 98D, Emitter Locator/Identifier.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates or supervises the operation of radio direction-finding systems and other systems using advanced identification techniques; intercepts and acquires bearings on target transmitters and performs analysis on maps or charts to establish probable locations of target transmitters. **NOTE:** Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledge associated with the MOS were evaluated. **Skill Level 10:** Employs special transmitters; forwards bearing and identification information to a control center; selects, erects, and orients tactical antennas; obtains desired visual display on specialized monitor oscilloscopes; records electrical characteristics of signals displayed, using light sensitive recorders; operates direction-finding and related cryptological, communication, and automatic data processing equipment; prepares and maintains operation logs and card files; types at a minimum rate of 25 words per minute; copies international Morse code at a minimum rate of 20 groups per minute. **Skill Level 20:** Able to perform the duties required for Skill Level 10; maintains section management files; classifies, analyzes, and evaluates observed bearings and waveform oscillograms; establishes, plots, and evaluates bearings to determine probable geographical location of foreign transmitters; measures bands on oscillograms to determine ripple frequency, modulation percentages, and duration of other effects; maintains calibration and accuracy studies and computes statistical data, including standard deviation and systemic errors; monitors quality control of input and data for automatic data processing support; may serve as a first-line supervisor, assigning work loads and completing personnel evaluations; presents oral and written reports. **Skill Level 30:** Able to perform the duties required for Skill Level 20; inspects equipment to ensure proper alignment and orientation; provides guidance and assistance in site selection and equipment installation; prepares written and oral reports; establishes and maintains facilities and support for site personnel; implements emergency

action plans; may have experience as the enlisted commander of a detachment.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding and 1 in computer literacy (9/88).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding, 3 in written communication, 1 in office practices, and 2 in computer literacy (9/88).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding, 3 in written communication, 3 in office practices, 3 in computer literacy, and 3 for field experience in personnel supervision (9/88).

MOS-05H-003

ELECTRONIC WARFARE/SIGNAL INTELLIGENCE
MORSE INTERCEPTOR
05H10
05H20
05H30
05H40

Exhibit Dates: 1/90–3/90. Effective 3/90, MOS 05H was discontinued and its duties were incorporated into MOS 98H, Morse Interceptor.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates international Morse code message interception and simple printer equipment and supervises the operation of such equipment in mobile or fixed installations for the purpose of detecting, identifying, and exploiting foreign communications. **NOTE:** Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledge associated with the MOS were evaluated. **Skill Level 10:** Operates Morse Code interception equipment, including radio receivers, special typewriters, teletypewriters, antenna selection devices, internal communications equipment, and magnetic tape recorders; searches for, identifies, and manually records foreign international Morse Code communications at a minimum rate of 20 groups per minute; performs first-level analysis of messages to detect anomalies and suspect items which may be of intelligence interest; maintains operator's log of messages and related data and delivers messages to analysts for interpretation; performs operator maintenance on equipment; types at a minimum speed of 25 words per minute. **Skill Level 20:** Able to perform the duties required for Skill Level 10; performs more detailed message analysis and evaluation prior to forwarding messages to other analysts; writes detailed reports regarding intercepted messages; conducts on-the-job training; presents oral reports to high-level command staff. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises Morse intercept activities; establishes and maintains

extensive intercept files for messages and related data; assists in formulating unit deployment plans. **Skill Level 40:** Able to perform the duties required for Skill Level 30; allocates personnel and equipment resources; assists in designing collection strategies; may have experience as the enlisted commander of a detachment; analyzes automatic data processing results and confers with computer programmers and analysts; uses counseling techniques to alleviate stress among subordinates. **NOTE:** May have progressed to 05H40 from 05H30 or 05D30 (Electronic Warfare/Signal Intelligence Emitter Identifier/Locator).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in Morse code and 3 in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding (9/88).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in Morse code and 3 in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding and 1 in office practices (9/88).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in Morse code and 3 in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding, 3 in office practices, 3 in human relations, 3 for field experience in personnel supervision, and 3 in written communication (9/88).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in Morse code and 3 in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding, 3 in office practices, 3 in human relations, 3 for field experience in personnel supervision, 3 in written communication, 3 for a counseling practicum, and 3 in social science and humanities. In the upper-division baccalaureate category, 3 semester hours for field experience in management (9/88).

MOS-05K-003

ELECTRONIC WARFARE/SIGNAL INTELLIGENCE NON-
MORSE INTERCEPTOR
05K10
05K20
05K30
05K40

Exhibit Dates: 1/90–3/90. Effective 3/90, MOS 05K was discontinued and its duties were incorporated into MOS 98K, Non-Morse Interceptor/Analyst.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates non-Morse communications intercept and recording equipment and supervises the operation of such equipment in mobile or fixed environments for the purpose of identifying and recording foreign radioteletype, facsimile, and data communications transmissions. **NOTE:** Many of the duties for this MOS involve highly classified material, equipment, and activities; therefore, not all the com-

petencies and knowledge associated with the MOS were evaluated. *Skill Level 10:* Operates radioteletype, facsimile, and data intercept and recording equipment; knows basic AC and DC theory, circuit electronic theory, basic frequency analysis, spectrum analysis, and functional algebra; searches for, identifies, and records foreign transmissions; maintains a log of interceptions; prepares technical reports; types at a minimum rate of 25 words per minute; performs operator maintenance on non-Morse intercept equipment; selects, erects, and orients tactical antennas. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists in the establishment of operational sites; maintains the technical data base to support collection operations; employs special electronic equipment for complex signal analysis; analyzes intercepted communications for items of intelligence interest; prepares detailed reports; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises non-Morse intercept activities; allocates equipment and personnel resources; writes extensive reports to accurately provide intelligence information; analyzes long-term trends, using statistical analysis techniques; coordinates interaction with other collection and processing activities; conducts on-the-job training. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises non-Morse intercept activities; interprets signal intelligence collection priorities; ensures proper handling of intelligence information; assesses procedures and operations for adequacy in meeting intelligence requirements and recommends changes; may have experience as the enlisted commander of a detachment; uses counseling techniques to alleviate stress among subordinates.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding, 1 in computer literacy, and 2 in office practices (9/88).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding, 2 in computer literacy, 3 in office practices, and 3 in written communication (9/88).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding, 3 in computer literacy, 3 in office practices, 3 in written communication, 3 in human relations, and 3 in social sciences and humanities (9/88).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding, 3 in computer literacy, 3 in office practices, 3 in written communication, 3 in human relations, 3 in social sciences and humanities, 3 for a counseling practicum, and 3 for field experience in personnel supervision. In the upper-division baccalaureate category, 3

semester hours for field experience in management (9/88).

MOS-11B-004

INFANTRYMAN

11B10
11B20
11B30
11B40
11B50

Exhibit Dates: 1/90-2/95

Career Management Field: 11 (Infantry)

Description

Summary: Leads, supervises, and serves as a member of an infantry unit of 10-20 persons, employing individual weapons, machine guns, and antiarmor weapons in offensive and defensive ground combat. *Skill Level 10:* Uses individual infantry weapons; lays field wire; performs basic communications functions and operates communication equipment; utilizes camouflage to conceal weapons and personnel; constructs minor fortifications; performs land navigation; performs preventive maintenance on weapons, equipment, and some vehicles; makes verbal reports; administers first aid; operates wheeled vehicles to transport personnel, supplies, and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as a team leader, directing deployment and employment of personnel; supervises maintenance and construction activities; reads, interprets, and collects intelligence information; distributes administrative and training documents; trains subordinate personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; as a first-line supervisor, directs the utilization of personnel and equipment; coordinates unit actions with adjacent and supporting elements; insures proper collection and reporting of intelligence data. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and trains personnel in infantry operations and intelligence activities; assists in planning, organizing, directing, supervising, training, coordinating, and reporting activities of subordinate units; supervises receipt, storage, and distribution of supplies, equipment, and food to subordinate units; provides oral and written reports; assists in production and administration of staff journals, files, records, and reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as the principal non-commissioned officer in an infantry company; assists in planning, coordinating, and supervising all company activities; advises superiors on all matters concerning subordinate personnel. **NOTE:** May have progressed to 11B50 from 11B40, 11C40 (Indirect Fire Infantryman), 11H40 (Heavy Antiarmor Weapons Crewman), or 11M40 (Fighting Vehicle Infantryman).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in map reading, 1 in first aid, and credit in surveying on the basis of institutional evaluation. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (10/83).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance. In

the lower-division baccalaureate/associate degree category, 1 semester hour in map reading, 1 in first aid, and credit in surveying on the basis of institutional evaluation (10/83).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading, 1 in first aid, 2 in record keeping, 3 in personnel supervision, 3 in human relations, and credit in surveying on the basis of institutional evaluation (10/83).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 1 in first aid, 3 in record keeping, 3 in personnel supervision, 3 in human relations, 3 in principles of instruction, and credit in surveying on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours for field experience in management (10/83).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 1 in first aid, 3 in record keeping, 3 in personnel supervision, 3 in human relations, 3 in principles of instruction, 3 in office administration, 3 in introduction to management, and credit in surveying on the basis on institutional evaluation. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (10/83).

MOS-11B-005

INFANTRYMAN

11B10
11B20
11B30
11B40
11B50

Exhibit Dates: 3/95-Present.

Career Management Field: 11 (Infantry).

Description

Summary: Leads, supervises, and serves as a member of an infantry unit of 10-20 persons, employing individual weapons, machine guns, and antiarmor weapons in offensive and defensive ground combat. *Skill Level 10:* Uses individual infantry weapons; lays field wire; performs basic communications functions and operates communication equipment; utilizes camouflage to conceal weapons and personnel; constructs minor fortifications; performs land navigation; performs preventive maintenance on weapons, equipment, and some vehicles; makes verbal reports; administers first aid; operates wheeled vehicles to transport personnel, supplies, and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as a team leader, directing deployment and employment of personnel; supervises maintenance and construction activities; reads, interprets, and collects intelligence information; distributes administrative and training documents; trains subordinate personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; as a first-line super-

visor, directs the utilization of personnel and equipment; coordinates unit actions with adjacent and supporting elements; insures proper collection and reporting of intelligence data. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and trains personnel in infantry operations and intelligence activities; assists in planning, organizing, directing, supervising, training, coordinating, and reporting activities of subordinate units; supervises receipt, storage, and distribution of supplies, equipment, and food to subordinate units; provides oral and written reports; assists in production and administration of staff journals, files, records, and reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as the principal non-commissioned officer in an infantry company; assists in planning, coordinating, and supervising all company activities; advises superiors on all matters concerning subordinate personnel. NOTE: May have progressed to 11B50 from 11B40, 11C40 (Indirect Fire Infantryman), 11H40 (Heavy Antiarmor Weapons Crewman), or 11M40 (Fighting Vehicle Infantryman).

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (10/83).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (10/83).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in map reading, 1 in first aid, 2 in record keeping, 3 in personnel supervision, 3 in human relations, and credit in surveying on the basis of institutional evaluation (10/83).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading, 1 in first aid, 3 in record keeping, 3 in personnel supervision, 3 in human relations, 3 in principles of instruction, and credit in surveying on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours for field experience in management (10/83).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 1 in first aid, 3 in record keeping, 3 in personnel supervision, 3 in human relations, 3 in principles of instruction, 3 in office administration, 3 in introduction to management, and credit in surveying on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (10/83).

MOS-11C-003

INDIRECT FIRE INFANTRYMAN

11C10

11C20

11C30

11C40

11C50

Exhibit Dates: 1/90–1/92.

Career Management Field: 11 (Infantry).

Description

Summary: Leads or serves as a member of a mortar squad, section, or platoon employing crew-served and individual weapons in offensive and defensive operations. *Skill Level 10:* Employs individual weapons; assists in construction of minor fortifications; performs minor maintenance on weapons, equipment, and wheeled and tracked vehicles; performs land navigation; measures horizontal and vertical angles; estimates ranges; computes firing data; administers first aid; collects and verbally reports tactical information using basic communications equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; leads mortar squad; supervises crew readiness; trains crew; supervises work details. *Skill Level 30:* Able to perform the duties required for Skill Level 20; leads mortar section; supervises employment and deployment of personnel and equipment; conducts surveys to determine weapon location. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises mortar platoon; assists in planning, organizing, training, reporting, and coordinating activities of subordinate sections; supervises receipt, storage, and distribution of ammunition, supplies, equipment, and food. *Skill Level 50:* Able to perform the duties required for Skill Level 40; plans, coordinates, supervises, and participates in activities pertaining to organization, training, and combat operations and intelligence; serves as principal NCO in a mechanized infantry headquarters company; supervises the processing of operations and intelligence information at a battalion or higher level.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying and 1 in first aid. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 for field experience in management, and 1 in first aid (6/79).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 in human relations, 3 in record keeping, 3 for field experience in management, and 1 in first aid (6/79).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate

degree category, 6 semester hours in human relations, 3 in office administration, 3 in record keeping, 3 in surveying, and 1 in first aid. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (5/88).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in human relations, 3 in office administration, 3 in record keeping, 3 in surveying, and 1 in first aid. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in personnel management (5/88).

MOS-11C-004

INDIRECT FIRE INFANTRYMAN

11C10

11C20

11C30

11C40

11C50

Exhibit Dates: 2/92–Present.

Career Management Field: 11 (Infantry).

Description

Summary: Leads or serves as a member of a mortar squad, section, or platoon employing crew-served and individual weapons in offensive and defensive operations. *Skill Level 10:* Employs individual weapons; assists in construction of minor fortifications; performs minor maintenance on weapons, equipment, and wheeled and tracked vehicles; performs land navigation; measures horizontal and vertical angles; estimates ranges; computes firing data; administers first aid; collects and orally reports tactical information using basic communications equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; leads mortar squad; supervises crew readiness; trains crew; supervises work details. *Skill Level 30:* Able to perform the duties required for Skill Level 20; leads mortar section; supervises employment and deployment of personnel and equipment; conducts surveys to determine weapons location; prepares efficiency reports on subordinates. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises mortar platoon; assists in planning, organizing, training, reporting, and coordinating activities of subordinate sections; supervises receipt, storage, and distribution of ammunition, supplies, equipment, and food. *Skill Level 50:* Able to perform the duties required for Skill Level 40; plans, coordinates, supervises, and participates in activities pertaining to organization, training, and combat operations and intelligence; serves as principal noncommissioned officer in a mechanized infantry headquarters company; supervises the processing of operations and intelligence information at a battalion or higher level; counsels subordinates and reviews efficiency reports.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 2/92-2/95 only) (2/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management (2/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (2/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in organizational management; if pay-grade E-9 has been attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (2/92).

MOS-11H-002**HEAVY ANTIARMOR WEAPONS CREWMAN**

11H10
11H20
11H30
11H40
11H50

Exhibit Dates: 1/90–1/92.

Career Management Field: 11 (Infantry).

Description

Summary: Leads or serves as a member of heavy antiarmor crew-served vehicle squad, section, or platoon. *Skill Level 10:* Serves as a loader of a special ammunition weapon; fires weapon or drives the vehicle; prepares ammunition; exercises safety precautions and knows first-aid procedures; lays field wire, performs basic communications function and operates communications equipment; performs preventive maintenance on vehicle, armament, and weapon fire control system; assists in clearing or breaching minefields or fortifications. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as a vehicle crew commander, directing employment of personnel in field operations; evaluates terrain; selects emplacement locations and assigns target locations; supervises construction of fortifications; interprets maps and prepares field sketches; supervises crew training and various work details. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and leads an antiarmor section consisting of several vehicles; coordinates and supervises the employment of the section; supervises the receipt, storage, and distribution of food and supplies; coordinates firepower and advises on tactical situations; supervises maintenance program of all section vehicles and equipment; trains and instructs replacement personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in planning, organizing, and coordinating activities of subordinates; assists in coordinating administrative matters and implementing training programs and communications activities; advises commander on employment of weapons systems. *Skill Level 50:* Able to perform the duties required for Skill

Level 40, plans, coordinates, supervises, and participates in activities pertaining to organization, training, combat operations, and intelligence; serves as a principal noncommissioned officer in a heavy antiarmor weapons company; supervises the processing of operations and intelligence information at battalion or higher level.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (11/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid and 3 in map reading (11/79).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 3 in map reading, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (11/79).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 3 in map reading, 3 in personnel supervision, and 3 in introduction to management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (11/79).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 3 in map reading, 3 in personnel supervision, and 3 in introduction to management. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in personnel management (5/88).

MOS-11H-003**HEAVY ANTIARMOR WEAPONS CREWMAN**

11H10
11H20
11H30
11H40
11H50

Exhibit Dates: 2/92–Present.

Career Management Field: 11 (Infantry).

Description

Summary: Leads or serves as a member of heavy antiarmor crew-served vehicles squad, section, or platoon. *Skill Level 10:* Serves as a loader of a special ammunition weapon; fires weapon or drives the vehicle; prepares ammunition; exercises safety precautions and knows first aid procedures; lays field wire, performs basic communications function and operates communications equipment; performs preventive maintenance on vehicle, armament, and weapon fire control system; assists in clearing or breaching minefields or fortifications. *Skill*

Level 20: Able to perform the duties required for Skill Level 10, serves as a vehicle crew commander, directing employment of personnel in field operations; evaluates terrain; selects emplacement location and assigns target locations; supervises construction of fortifications; interprets maps and prepares field sketches; supervises crew training and various work details. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and leads an antiarmor section consisting of several vehicles; coordinates and supervises squad of approximately six persons; supervises the receipt, storage, and distribution of food and supplies; coordinates firepower and advises on tactical situations; supervises maintenance program of all section vehicles and equipment; trains and instructs replacement personnel; prepares efficiency reports on subordinates. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in planning, organizing, and coordinating activities of subordinates; assists in coordinating administrative matters and implementing training programs and communications activities; advises commander on employment of weapons systems. *Skill Level 50:* Able to perform the duties required for Skill Level 40; plans, coordinates, supervises, and participates in activities pertaining to organization, training, combat operations, and intelligence; serves as a principal noncommissioned officer in a heavy antiarmor weapons company; supervises the processing of operations and intelligence information at battalion or higher level; counsels subordinates and reviews efficiency reports.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in introduction to heavy equipment maintenance, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 2/92-2/95 only) (2/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in introduction to heavy equipment maintenance, 3 in personnel supervision, and 2 in records and information management (2/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in introduction to heavy equipment maintenance, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (2/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in introduction to heavy equipment maintenance, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in organizational management; if pay-grade E-9 has been attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (2/92).

MOS-11M-002**FIGHTING VEHICLE INFANTRYMAN**

11M10
11M20
11M30
11M40
11M50

Exhibit Dates: 1/90–Present.

Career Management Field: 11 (Infantry).

Description

Summary: Leads, supervises, manages, and serves as a member of a fighting vehicle unit or activity employing vehicular and dismounted weapons in combat operations. *Skill Level 10:* Operates and conducts preventive maintenance checks and services on the Infantry Fighting Vehicle (IFV) and components; performs operator maintenance on automotive components; selects routes and firing positions; provides a steady platform for stabilized weapons fire; assists in target detection, identification, and round sensing; assists in refueling and vehicle recovery operation; is familiar with turret recovery operation, loading, and controls; presents oral reports and operates communications equipment; collects and reports technical information; assists in construction of fortifications; carries and prepares ammunition; administers first aid and applies field sanitation methods; maintains assigned weapons and individual equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; conducts preventive maintenance checks and services on IFV turret and weapon systems; performs operator maintenance on turret; assists in supervising automotive maintenance; loads and fires weapons; detects, acquires, identifies, and engages targets; responds to fire commands; determines range to targets; employs battle sight gunnery techniques and adjusts direct fire; prepares range cards; sights and zeroes weapons; leads infantry dismount team in combat operations and processes intelligence and operations data; receives and implements combat orders; directs deployment of personnel in offensive, defensive, and retrograde combat operations; evaluates terrain, selects weapon placement sites, and assigns target engagement areas and fields of fire; utilizes IFV capabilities to maintain night surveillance; requests, observes, and adjusts direct supporting fires; supervises construction of hasty fortifications; supervises receipt, storage, issue, and loading of ammunition; records operational information on maps; reads and interprets maps and aerial photos; trains subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; receives and issues orders; controls vehicular and dismounted weapons fire in mounted and dismounted operations; engages targets from commander's position; coordinates action of squad with adjacent and supporting elements; coordinates organic and supporting firepower; leads and participates in patrols; insures collection and proper reporting of intelligence data to unit and responsible staff sections; supervises and manages all squad preventive and operator maintenance activities. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs duties as vehicle element or dismount element leader; assists platoon leader in controlling infantry fighting platoon in mounted or dismounted operations; acts as platoon leader in his absence; processes operations and intelligence information; assists in plan-

ning, organizing, directing, supervising, training, coordinating, and reporting activities of subordinate squads; supervises receipt, storage, and distribution of ammunition, supplies, equipment, and food to subordinate elements; supervises platoon preventive and operation maintenance activities of IFV; collects intelligence information to support combat operations; supervises and trains personnel in fighting vehicle operations, maintenance, and intelligence activities; assists in dissemination of intelligence information to unit and staff sections; assists in coordination and implementation of combat operations, training programs, and administrative and communication procedures; assists in production and administration of staff journals, files, records, and reports; assists in organization and operation of the tactical operations center. *Skill Level 50:* Able to perform the duties required for Skill Level 40; plans, coordinates, supervises, and participates in activities pertaining to organization, training, and combat operations and intelligence; serves as principal noncommissioned officer in a mechanized infantry company; supervises the processing of operations and intelligence information at battalion or higher level.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 1 in vehicle maintenance, and 1 in map reading. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/85).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 2 in vehicle maintenance, 2 in map reading, and 2 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (9/85).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 2 in vehicle maintenance, 2 in map reading, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (9/85).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 2 in vehicle maintenance, 2 in map reading, 3 in personnel supervision, and 3 in maintenance management. In the upper-division baccalaureate category, 6 semester hours for field experience in management (9/85).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 2 in vehicle maintenance, 2 in map reading, 3 in personnel supervision, and 3 in maintenance management. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in personnel management (5/88).

MOS-11Z-002

INFANTRY SENIOR SERGEANT
11Z50

Exhibit Dates: 1/90–Present.

Career Management Field: 11 (Infantry).

Description

Serves as the principal operations noncommissioned officer in an infantry brigade or com-

parable position in higher headquarters; may serve in a rear tactical operations center; plans, coordinates, and supervises organizational, training, and combat operations. NOTE: May have progressed to 11Z50 from 11B50, Infantryman, 11C50, Indirect Fire Infantryman, 11H50, Heavy Antiarmor Weapons Infantryman, or 11M50, Fighting Vehicle Infantryman.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management; if paygrade E-9 has been attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (2/92).

MOS-12B-003

COMBAT ENGINEER

12B10
12B20
12B30
12B40

Exhibit Dates: 1/90–5/91.

Career Management Field: 12 (Combat Engineering).

Description

Summary: Engages in vertical, road, and air-field construction and rigging, bridging, and demolition activities. *Skill Level 10:* Assists combat engineers and bridge and powered-bridge specialists in performance of duties; uses hand tools and engineering tools. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists with excavation, earth moving, rigging, and concrete work. *Skill Level 30:* Able to perform the duties required for Skill Level 20; acts as demolition expert. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises teams of construction and demolition personnel.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in hand tool operation (11/77).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in construction equipment operation and 3 in hand tool operation (11/77).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in demolition operations, 6 in construction equipment operation, and 3 in hand tool operation (11/77).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in construction equipment operation, 9 in demolition operations, 3 in hand tool operation, 2 in geography (map interpretation), 3 in construction methods, 1 in blueprint reading, 2 in communication skills, and 3 in construction supervision. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management and additional credit in administration and in construction on the basis of institutional evaluation (11/77).

MOS-12B-004**COMBAT ENGINEER**

12B10
12B20
12B30
12B40

Exhibit Dates: 6/91–Present

Career Management Field: 12 (Combat Engineering).

Description

Summary: Engages in vertical, road, bridge, and airfield construction and rigging, bridging, and demolition activities. *Skill Level 10:* Assists combat engineers and bridge and powered-bridge specialists in performance of duties; reads, interprets, and plots maps, overlays, and photos; assists with tactical operations; uses hand tools and engineering tools. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists with excavation, earth moving, rigging, and concrete work; supervises and instructs subordinates; operates excavation and earth-moving heavy equipment; performs rigging, concrete and masonry work. *Skill Level 30:* Able to perform the duties required for Skill Level 20; acts as a demolition expert; with the knowledge of location and level of charge, coordinates work teams; writes orders; cross-checks material requirements. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises teams of construction and demolition personnel; prepares construction procedure schedule; serves as liaison with supported units; plans construction operations.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in construction site preparation. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science and 3 in construction materials and methods. (NOTE: This recommendation for skill level 10 is valid for the dates 6/91-9/91 only) (7/91).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in construction site preparation. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in construction materials and methods, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 6/91-2/95 only) (7/91).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in construction site preparation. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in construction materials and methods, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (7/91).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in construction site preparation. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in construction materials and methods, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (7/91).

MOS-12C-002**BRIDGE CREWMAN**

12C10
12C20
12C30
12C40

Exhibit Dates: 1/90–5/91

Career Management Field: 12 (Combat Engineering)

Description

Summary: Provides engineer bridging for streams and dry gaps. *Skill Level 10:* Assists in the assembly, erection, and disassembly of floating and fixed prefabricated bridges; uses and maintains hand tools; assists in rigging; prepares and operates assault boats. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises rigging; performs as demolition expert. *Skill Level 30:* Able to perform the duties required for Skill Level 20; operates power boats; interprets maps; uses and maintains construction hand tools. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises bridge construction and repair; determines bridge construction sites; provides work and material estimates; supervises use of heavy construction equipment; prepares technical reports; supervises a minimum of ten persons.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in construction hand tool operation and maintenance (11/77).

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in bridge construction and 3 in construction hand tool operation and maintenance (11/77).

Recommendation, Skill Level 30

In the vocational certificate category, 12 semester hours in bridge construction, 4 in construction hand tool operation and maintenance, and 4 in power boat operation. In the lower-division baccalaureate/associate degree category, 6 semester hours in construction methods and 1 in blueprint reading (11/77).

Recommendation, Skill Level 40

In the vocational certificate category, 12 semester hours in bridge construction, 4 in construction hand tool operation and maintenance, 4 in power boat operation, 4 in construction methods, 3 in bridge maintenance, and 3 in construction supervision. In the lower-division baccalaureate/associate degree category, 6 semester hours in construction methods, 3 in construction supervision, 1 in blueprint reading, 2 in geography (map interpretation), 2 in technical writing, 2 in communication skills, and 1 in applied physics (11/77).

MOS-12C-003**BRIDGE CREWMAN**

12C10
12C20
12C30
12C40

Exhibit Dates: 6/91–Present.

Career Management Field: 12 (Combat Engineering).

Description

Summary: Provides engineer bridging for streams and dry gaps. *Skill Level 10:* Assists in the assembly, erection, and disassembly of floating and fixed prefabricated bridges; uses and maintains hand tools; assists in rigging; prepares and operates assault boats; reads, interprets, and plots maps, overlays, and photos; assists with tactical operations. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and instructs subordinates; supervises rigging; performs as demolition expert; performs maintenance on specialized equipment needed to install bridges. *Skill Level 30:* Able to perform the duties required for Skill Level 20; operates power boats; interprets maps; evaluates existing bridges for load tolerances; calculates equipment requirements; inspects personnel, construction, and utilization of bridging and rafting equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises bridge construction and repair; determines bridge construction sites; provides work and material estimates; supervises the use of heavy construction equipment; prepares technical reports; supervises a minimum of ten persons.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science. (NOTE: This recommendation for skill level 10 is valid for the dates 6/91-9/91 only) (7/91).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in construction site preparation. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management. (NOTE: This recommendation for skill level 20 is valid for the dates 6/91-2/95 only) (7/91).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in construction site preparation. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, 2 in records and information management, and 3 in bridge statics (civil engineering) (7/91).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in construction site preparation. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, 2 in records and information management, and 3 in bridge statics (civil engineering). In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (7/91).

MOS-12F-002**ENGINEER TRACKED VEHICLE CREWMAN**

12F10
12F20
12F30
12F40

Exhibit Dates: 1/90–Present.

Career Management Field: 12 (Combat Engineering).

Description

Summary: Leads, supervises, or serves as member of combat engineer vehicle-launched bridge crew or operates engineer armored personnel carrier. **Skill Level 10:** Operates combat engineer vehicles over varied terrain and roads; reacts to commands and navigates over land; operates special equipment such as bridge launchers, lifting devices, power winches, and bulldozers; loads, fires, and unloads guns; installs and dismantles radios and antennas; services and adjusts vehicle components; participates in bridging and demolition operations. **Skill Level 20:** Able to perform the duties required for Skill Level 10; serves as squad leader; supervises, instructs, and provides technical guidance to subordinates. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises crew and section personnel; directs overall operations and training exercises; conducts battle drills; identifies targets, and selects placement for demolitions; coordinates maintenance requirements; manages equipment and personnel; conducts reconnaissance and reports intelligence information. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises platoon and section personnel; assists in planning, organizing, directing, supervising, and managing at the platoon, section, or team level; directs assignment of vehicles and personnel.

Recommendation, Skill Level 10

In the vocational certificate category, 2 semester hours in heavy equipment operation. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 1 in vehicle maintenance, and 1 in map reading. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/85).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in heavy equipment operation. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 2 in vehicle maintenance, 2 in map reading, and 2 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (9/85).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in heavy equipment operation. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 2 in vehicle maintenance, 2 in map reading, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (9/85).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in heavy equipment operation. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 2 in vehicle maintenance, 2 in map reading, 3 in personnel supervision, and 3 in maintenance management. In the upper-division baccalaureate category, 6 semester hours for field experience in management (9/85).

MOS-12Z-002

COMBAT ENGINEERING SENIOR SERGEANT
12Z50

Exhibit Dates: 1/90-5/91.

Career Management Field: 12 (Combat Engineer).

Description

Serves as principal noncommissioned officer of a combat engineer company, bridge company, or engineer staff section; serves as a bridge inspector, operations, or intelligence noncommissioned officer; may advise higher headquarters, supported units, allied forces, Army Reserve units, and Army National Guard units; may serve as an instructor in a formal military school; capable of managing personnel and activities in a civilian engineering/construction firm; assists in planning, supervising, and coordinating all unit activities; advises commander on personnel equipment and technical matters; provides subordinate supervisors with instructions; plans and implements training programs; inspects work progress and enforces job specifications and safety standards; supervises maintenance of functional and project files; prepares correspondence, plans, orders, construction schedules, and reports; maintains equipment records; maintains technical publications. NOTE: May have progressed to 12Z50 from Skill Level 40 of any MOS in the combat engineering career management field (12).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in elements of construction management, 3 in management problems, 3 in records management, 3 in quality control, 3 in personnel supervision, 3 in supervision and leadership, and 6 for field experience in management. NOTE: Has a prerequisite knowledge of engineering equivalent to an associate degree (30-40 semester hours depending on general education requirements) in engineering technology (11/77).

MOS-12Z-003

COMBAT ENGINEERING SENIOR SERGEANT
12Z50

Exhibit Dates: 6/91-Present.

Career Management Field: 12 (Combat Engineer).

Description

Serves as principal noncommissioned officer of a combat engineer company, bridge company, or engineer staff section; serves as a bridge inspector, operations, or intelligence noncommissioned officer; may advise headquarters, supported units, allied forces, Army Reserve units, and Army National Guard units; may serve as an instructor in a formal military school; capable of managing personnel and activities in a civilian engineering/construction firm; assists in planning, supervising, and coordinating all unit activities; advises commander on personnel equipment and technical matters; provides subordinate supervisors with instructions; plans and implements training programs; inspects work progress and enforces job specifications and safety standards; supervises maintenance of functional and project files; prepares correspondence, plans, orders, construction schedules, and reports; maintains equipment records; maintains technical publications. NOTE: May have progressed to 12Z50 from Skill Level 40 of MOS 12B, Combat Engineer, 12C, Bridge Crewmember, or 12F, Engineer Tracked Vehicle Crewman.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, 3 in main-

tenance management, 3 in technical writing, and 3 in records and information management. In the upper-division baccalaureate category, 6 semester hours for field experience in management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (7/91).

MOS-13B-003

CANNON CREWMEMBER
13B10
13B20
13B30
13B40

Exhibit Dates: 1/90-Present.

Career Management Field: 13 (Field Artillery).

Description

Summary: Supervises or serves as a member of a field artillery cannon unit; places and fires cannon, maintains transport vehicles and weapons, and operates communications equipment. **Skill Level 10:** Serves as a vehicle driver, ammunition specialist, cannoneer, maintenance technician, and communications equipment operator; determines azimuth; reads maps; navigates; operates radio set; services hydraulic, pneumatic, and electromechanical systems. **Skill Level 20:** Able to perform the duties required for Skill Level 10; assists section chief; uses aiming devices; performs boresight; supervises preventive maintenance, ammunition supply, and equipment transport. **Skill Level 30:** Able to perform the duties required for Skill Level 20; serves as section chief; directs defense of section; instructs and supervises seven to twelve persons; supervises equipment maintenance, emplacement construction, safety procedures, and ammunition handling and distribution. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises 12 to 60 persons; selects sites for weapon emplacement; supervises firing; supervises and conducts training of section personnel; lays fire direction; conducts weapon checks; supervises ammunition train and movement of weapons; prepares technical reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in communications system operation, 1 in hydraulic and electromechanical systems troubleshooting and maintenance, 1 in map reading, and 1 in applied mathematics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/89).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in communications system operation, 2 in hydraulic and electromechanical systems troubleshooting and maintenance, 2 in map reading, and 2 in applied mathematics. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (6/89).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in communications system operation, 2 in hydraulic and electromechanical systems troubleshooting and maintenance, 2 in map reading, 2 in applied mathematics, 3 in principles of supervision, 3 in

communication skills, and 1 in technical report writing (6/89).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in communications system operation, 2 in hydraulic and electromechanical systems troubleshooting and maintenance, 2 in map reading, 2 in applied mathematics, 3 in principles of supervision, 3 in communication skills, and 3 in technical report writing. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (6/89).

MOS-13C-002

TACFIRE OPERATIONS SPECIALIST

13C10

13C20

13C30

13C40

Exhibit Dates: 1/90–Present.

Career Management Field: 13 (Field Artillery).

Description

Summary: Supervises or serves as a member of an activity operating tactical fire direction (TACFIRE) equipment in a field artillery cannon battalion or higher unit. *Skill Level 10:* Operates equipment in conjunction with or in support of TACFIRE computer; assists in preparation and operation of the computer; assists in preparing the computer center for operation and shutdown; performs cabling and equipment installation and removal; operates computer center equipment during normal, alternate mode, and emergency operations; recognizes partial/complete computer center failure and performs alternate mode reconfiguration procedures; distributes printed data generated by TACFIRE computer; performs computer center preventive maintenance and performance checks; operates and performs operator maintenance on power generation equipment; prepares TACFIRE Remote Terminal (TRT) for operation; performs TRT cabling and installation/removal procedures; operates TRT to input and retrieve computer control information, tactical data base, artillery target intelligence, fire planning, survey, tactical, and technical fire control operations data; recognizes partial/complete TRT failure and performs alternate mode reconfiguration procedures; performs TRT troubleshooting procedures and operator maintenance; performs TRT shutdown procedures; lays field wire; installs field telephones and vehicle radio remote control equipment; erects/dismantles antennas; performs operator checks and maintenance on communications equipment; transmits and receives using communications equipment; monitors radio broadcasts. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; inputs and retrieves computer center control information necessary to establish communications with subscribers and initiates computer center operations; performs maintenance on TACFIRE computer and remote devices; maintains required tools, test equipment, and appropriate spare parts to accomplish organizational maintenance duties; supervision and management experience may vary. *Skill Level 30:* Able to perform the duties required for Skill Level 20; operates TACFIRE computer in field artillery cannon battalion fire

direction center; operates TACFIRE computer to input and retrieve computer initialization control and tactical data base information; processes tactical and technical fire control data, artillery target intelligence, non-nuclear fire planning data survey information and routines, and meteorological data; performs operator maintenance and checks on computer; supervises subordinates. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in supervision of battalion or higher operations section; operates TACFIRE computer in field artillery brigade or higher unit; supervises TRT operators; prepares and distributes maps, operational information, and training materials; present briefings on current operations and situations; compiles information and prepares reports; ensures compliance with security precautions and regulations; supervises march order and emplacement of fire direction center equipment; operates TACFIRE computer to input and retrieve computer initialization, control, and tactical data base information. **NOTE:** May have progressed to 13C40 from 13C30 or 13E30 (Cannon Fire Direction Specialist).

Recommendation, Skill Level 10

Credit is not recommended because of the limited and specialized nature of the skills, competencies, and knowledge (6/89).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, if served in a supervisory position, 3 semester hours in principles of supervision and 3 in maintenance management. **(NOTE:** This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (6/89).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision, 3 in maintenance management, and 3 in communication skills (oral and written) (6/89).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision, 3 in maintenance management, and 3 in communication skills (oral and written). In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (6/89).

MOS-13E-004

CANNON FIRE DIRECTION SPECIALIST

13E10

13E20

13E30

13E40

Exhibit Dates: 1/90–2/95.

Career Management Field: 13 (Field Artillery).

Description

Summary: Leads, supervises, or serves as a member of a field artillery cannon fire direction center (FDC) or of an operations section. *Skill Level 10:* Uses graphs, tables, charts, and maps for manual computation of firing locations, angles, altitude corrections, and displacements; constructs firing charts; computes corrections for meteorological, registration, and muzzle velocity; uses computer to make firing data computations; knows and can use either the

Battery Computer System (BCS) or the Backup Computer System (BUCS) (military version of Hewlett-Packard 71B (16K) computer); installs and operates field telephones, digital message system and FM radio transmitter/receiver, knows and uses mathematics concepts (including some geometry and trigonometric functions) for manual computations; operates and maintains vehicles, section equipment, and generators; maintains situation map, fire support records, reports, and overlays; uses data from standardized tables to calculate data for nonstandard conditions. *Skill Level 20:* Able to perform the duties required for Skill Level 10; computes firing data and transmits to firing units; prepares status charts, target lists, and situation maps; enters database into computer unit; computes and enters meteorological and muzzle velocity corrections; prepares BUCS for operation and computes firing data. *Skill Level 30:* Able to perform the duties required for Skill Level 20; instructs personnel in fire direction techniques and operations; supervises computation of data; insures accuracy and completeness of firing data; evaluates and prepares annual efficiency reports on subordinates. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises fire direction operations; assists operations sergeant in supervision of operations section; presents briefings on current operations; prepares training materials; insures compliance with security requirements; supervises and evaluates eight to twelve persons.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in applied mathematics, 1 in communications system operations, 1 in map reading, and 1 in computer operations. **(NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only.) (6/89).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour in applied mathematics, 1 in communications system operations, 1 in map reading, and 2 in computer operations (6/89).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in applied mathematics, 1 in communications system operations, 2 in map reading, 2 in computer operations, 3 in principles of supervision, and 2 in communication skills (6/89).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in applied mathematics, 1 in communications system operations, 2 in map reading, 2 in computer operations, 3 in principles of supervision, and 3 in communication skills. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (6/89).

MOS-13E-005

CANNON FIRE DIRECTION SPECIALIST

13E10

13E20

13E30

13E40

Exhibit Dates: 3/95–Present.

Career Management Field: 13 (Field Artillery).

Description

Summary: Leads, supervises, or serves as a member of a field artillery cannon fire direction center (FDC) or of an operations section. **Skill Level 10:** Uses graphs, tables, charts, and maps for manual computation of firing locations, angles, altitude corrections, and displacements; constructs firing charts; computes corrections for meteorological, registration, and muzzle velocity; uses computer to make firing data computations; knows and can use either the Battery Computer System (BCS) or the Backup Computer System (BUCS) (military version of Hewlett-Packard 71B (16K) computer); installs and operates field telephones, digital message system, and FM radio transmitter/receiver; knows and uses mathematics concepts (including some geometry and trigonometric functions) for manual computations; operates and maintains vehicles, section equipment, and generators; maintains situation map, fire support records, reports, and overlays; uses data from standardized tables to calculate data for nonstandard conditions. **Skill Level 20:** Able to perform the duties required for Skill Level 10; computes firing data and transmits to firing units; prepares status charts, target lists, and situation maps; enters database into computer unit; computes and enters meteorological and muzzle velocity corrections; prepares BUCS for operation and computes firing data. **Skill Level 30:** Able to perform the duties required for Skill Level 20; instructs personnel in fire direction techniques and operations; supervises computation of data; insures accuracy and completeness of firing data; evaluates and prepares annual efficiency reports on subordinates. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises fire direction operations; assists operations sergeant in supervision of operations section; presents briefings on current operations; prepares training materials; insures compliance with security requirements; supervises and evaluates eight to twelve persons.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (6/89).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (6/89).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 1 semester hour in applied mathematics, 1 in communications system operations, 1 in map reading, and 2 in computer operations, 3 in principles of supervision, and 2 in communication skills (6/89).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in applied mathematics, 1 in communications system operations, 2 in map reading, 2 in computer operations, 3 in principles of supervision, and 3 in communication skills. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (6/89).

MOS-13F-002**FIRE SUPPORT SPECIALIST**

13F10

13F20

13F30

13F40

Exhibit Dates: 1/90–Present.

Career Management Field: 13 (Field Artillery).

Description

Summary: Serves as a member of a field artillery unit; leads or supervises fire support activities including intelligence, target processing, and observation. **Skill Level 10:** Reads maps and makes map entries; assists in fire support planning; prepares staff journals; prepares target records; encodes and decodes messages; requests munitions; emplaces and uses laser range finders; determines target location; erects antennas and installs field telephones; operates radios and telephones; transports personnel and weapons; maintains vehicles; administers first aid; performs patrol duty; fires defense weapons. **Skill Level 20:** Able to perform the duties required for Skill Level 10; leads and instructs forward observer and combat observation lasting team; assists in training subordinates in fire support; assists in developing fire support plan and tactics; prepares target lists and assists in compiling target information; sets up and maintains observation system; performs map reconnaissance. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises five to ten persons; instructs, advises, and evaluates personnel; supervises operator maintenance on equipment; assists targeting noncommissioned officer; processes fire requests; prepares technical reports; integrates fire support plan; performs duties of the Fire Support Officer in his absence. **Skill Level 40:** Able to perform the duties required for Skill Level 30; leads and trains targeting and fire support elements in combat operations; instructs, advises, and evaluates subordinate unit fire support sergeants in fire planning and coordination techniques; writes and coordinates fire support plans; recommends fire support employment; recommends target selection; and assists in tactics and target analysis at the brigade, division, and corps levels.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading, 1 in communications system operation, and 1 in applied mathematics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/89).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 2 in communications system operation, and 2 in applied mathematics. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (6/89).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 2 in communications system operation, 2 in applied mathematics, 2 in technical writing, 3 in principles of supervision, and 2 in communication skills (6/89).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 2 in communications system operation, 2 in applied mathematics, 3 in technical writing, 3 in principles of supervision, and 3 in communication skills. In the upper-division baccalaureate category, 3 semester hours for field

experience in management and 3 in personnel management (6/89).

MOS-13M-002**MULTIPLE LAUNCH ROCKET SYSTEM CREWMEMBER**

13M10

13M20

13M30

13M40

Exhibit Dates: 1/90–2/95.

Career Management Field: 13 (Field Artillery).

Description

Summary: Supervises or serves in a field artillery unit on the multiple launch rocket system; operates and maintains the launcher, transport vehicle, trailer, and other support equipment. **Skill Level 10:** Participates in launch maintenance and ammunition resupply activities; drives transport vehicles; participates in launcher operations; operates radio; maintains computer and performs system checks. **Skill Level 20:** Able to perform the duties required for Skill Level 10; assists the section chief; trains subordinate personnel; operates fire control panel; operates launcher; performs organizational maintenance; serves as firing platoon reconnaissance sergeant. **Skill Level 30:** Able to perform the duties required for Skill Level 20; serves as section chief supervising seven to twelve persons; instructs in launch procedures; supervises preventive maintenance on launch vehicles; supervises fire control panel maintenance; writes reports, and assures safety procedure compliance. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises 12 to 60 persons; supervises all section maintenance; writes technical and personnel reports; supervises and performs training of personnel, and assures safety procedure compliance.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in communications system operations, 1 in electromechanical systems troubleshooting and maintenance, and 1 in electronic and computer systems troubleshooting and maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/89).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in communications system operations, 2 in electromechanical systems troubleshooting and maintenance, 2 in electronic and computer systems troubleshooting and maintenance, and 1 in map reading (6/89).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in communications system operations, 2 in electromechanical systems troubleshooting and maintenance, 2 in electronic and computer systems troubleshooting and maintenance, 1 in map reading, 1 in applied mathematics, 1 in technical report writing, 3 in principles of supervision, and 3 in communication skills (6/89).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in communications system operations, 2 in electromechanical systems troubleshooting and maintenance, 2

in electronic and computer systems troubleshooting and maintenance, 1 in map reading, 1 in applied mathematics, 3 in technical report writing, 3 in principles of supervision, and 3 in communication skills. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (6/89).

MOS-13M-003

MULTIPLE LAUNCH ROCKET SYSTEM CREWMEMBER

13M10
13M20
13M30
13M40

Exhibit Dates: 3/95–Present.

Career Management Field: 13 (Field Artillery).

Description

Summary: Supervises or serves in a field artillery unit on the multiple launch rocket system; operates and maintains the launcher, transport vehicle, trailer, and other support equipment. **Skill Level 10:** Participates in launch maintenance and ammunition resupply activities; drives transport vehicles; participates in launcher operations; operates radio; maintains computer and performs system checks. **Skill Level 20:** Able to perform the duties required for Skill Level 10; assists the section chief; trains subordinate personnel; operates fire control panel; operates launcher; performs organizational maintenance; serves as firing platoon reconnaissance sergeant. **Skill Level 30:** Able to perform the duties required for Skill Level 20; serves as section chief supervising seven to twelve persons; instructs in launch procedures; supervises preventive maintenance on launch vehicles; supervises fire control panel maintenance; writes reports, and assures safety procedure compliance. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises 12 to 60 persons; supervises all section maintenance; writes technical and personnel reports; supervises and performs training of personnel, and assures safety procedure compliance.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (6/89).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (6/89).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in communications system operations, 2 in electromechanical systems troubleshooting and maintenance, 2 in electronic and computer systems troubleshooting and maintenance, 1 in map reading, 1 in technical report writing, 3 in principles of supervision, and 3 in communication skills (6/89).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in communications system operations, 2 in electromechanical systems troubleshooting and maintenance, 2 in electronic and computer systems troubleshooting and maintenance, 1 in map reading, 1 in applied mathematics, 3 in technical report writing, 3 in principles of supervision, and 3 in communication skills. In the upper-division

baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (6/89).

MOS-13N-001

LANCE CREWMEMBER

13N10
13N20
13N30
13N40

Exhibit Dates: 1/90–6/93. Effective 6/93, MOS 13N was discontinued.

Career Management Field: 13 (Field Artillery).

Description

Summary: Serves as a Lance missile crewmember or supervises Lance crewmembers. **Skill Level 10:** Under supervision, performs crewmember duties during placement, assembly, disassembly, or firing of missile; drives vehicles; emplaces missile launcher; operates power generator; performs maintenance; prepares missile handling equipment; provides proper storage locations for ammunition; performs guard duties and assists in defense of position; renders first aid and provides sanitation facilities. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides leadership and applicable training to subordinates; assists in instruction of security teams; assists or supervises orientation of launcher; monitors computer operation and programming; performs warhead settings; supervises or assists in maintenance and adjustment of equipment; establishes communication with proper facility; counsels subordinates. **Skill Level 30:** Able to perform the duties required for Skill Level 20; leads and supervises preparation of launcher and missile firing; provides leadership and instruction to personnel in receipt, storage, handling, and firing of missile; directs assembly of missile components; directs operation and maintenance of section equipment; supervises and coordinates ammunition supply; prepares maintenance and technical records; verifies sighting and emplacement operations. **Skill Level 40:** Able to perform the duties required for Skill Level 30; leads and directs missile placement and resupply operations; leads and directs maintenance; plans and organizes crew work schedules; ensures proper safety procedures; verifies final missile tests; originates and/or reviews technical personnel, administrative, readiness, and efficiency reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in communications system operation, 2 in electronic and computer systems troubleshooting and maintenance, and 2 in electrohydraulic systems troubleshooting and maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90–9/91 only) (6/89).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in communications system operation, 4 in electronic and computer systems troubleshooting and maintenance, 2 in electrohydraulic systems troubleshooting and maintenance, and 2 in map reading (6/89).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in communi-

cations system operation, 4 in electronic and computer systems troubleshooting and maintenance, 2 in electrohydraulic systems troubleshooting and maintenance, 2 in map reading, 1 in applied mathematics, 2 in technical writing, 3 in principles of supervision, and 3 in communication skills (6/89).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in communications system operation, 4 in electronic and computer systems troubleshooting and maintenance, 2 in electrohydraulic systems troubleshooting and maintenance, 2 in map reading, 1 in applied mathematics, 3 in technical writing, 3 in principles of supervision, and 3 in communication skills. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (6/89).

MOS-13P-001

MULTIPLE LAUNCH ROCKET SYSTEM/LANCE
OPERATIONS/FIRE DIRECTION SPECIALIST

13P10
13P20
13P30
13P40

Exhibit Dates: 1/90–2/95.

Career Management Field: 13 (Field Artillery).

Description

Summary: Leads, supervises, or serves as a member of a Multiple Launch Rocket System (MLRS) or a Lance missile fire direction center (FDC), or an operations section for either nuclear or conventional missions. **Skill Level 10:** Uses graphs, tables, charts, and maps for manual computation of firing locations, angles, altitudes, corrections, and displacements; constructs firing charts; knows and uses mathematical concepts (including some plane geometry and trigonometric functions) for manual computations; plots information on situation maps; operates the following specialized computers: Fire Direction System (FDS), Platoon Leaders Digital Message Device (PLDMD), or the Back-up Computer System (BUCS) (military version of Hewlett-Packard 71B (16K) computer); installs and operates digital message systems, FM radio transmitter/receiver and secures voice equipment; operates and maintains vehicles, equipment, and generators; uses data from standardized tables to calculate data for nonstandard conditions. **Skill Level 20:** Able to perform the duties required for Skill Level 10; computes data for Lance targets; operates BUCS in Lance fire direction centers; assists in supervising and instructing fire direction center personnel; uses map reading skills in maintaining situation maps. **Skill Level 30:** Able to perform the duties required for Skill Level 20; instructs personnel in techniques and procedures for manual computation of firing data; maintains target and mission reports; may serve in a high level Fire Support Element to provide guidance and advice on matters of employment of Lance missiles; instructs in the use and operation of FDS, PLDMD, and BUCS communications equipment. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises FDC to insure accurate computations, plotting, and issuing of fire commands; organizes work schedules and assigns duties to FDC personnel; instructs and supervises per-

sonnel; prepares technical, personnel, and administrative reports of section activities; provides emergency action plans and information in a Lance unit.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in applied mathematics, 1 in communications system operations, 1 in map reading, and 1 in computer operations. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/89).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour in applied mathematics, 1 in communications system operations, 1 in map reading, and 2 in computer operations (6/89).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in applied mathematics, 2 in communications system operations, 2 in map reading, 2 in computer operations, 2 in principles of supervision, and 2 in communication skills (6/89).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in applied mathematics, 2 in communications system operations, 2 in map reading, 2 in computer operations, 3 in principles of supervision, 3 in communication skills, and 3 in personnel management (6/89).

MOS-13P-002

MULTIPLE LAUNCH ROCKET SYSTEM/LANCE
OPERATIONS/FIRE DIRECTION SPECIALIST
13P10
13P20
13P30
13P40

Exhibit Dates: 3/95–Present.

Career Management Field: 13 (Field Artillery).

Description

Summary: Leads, supervises, or serves as a member of a Multiple Launch Rocket System (MLRS) or a Lance missile fire direction center (FDC), or an operations section for either nuclear or conventional missions. *Skill Level 10:* Uses graphs, tables, charts, and maps for manual computation of firing locations, angles, altitudes, corrections, and displacements; constructs firing charts; knows and uses mathematical concepts (including some plane geometry and trigonometric functions) for manual computations; plots information on situation maps; operates the following specialized computers: Fire Direction System (FDS), Platoon Leaders Digital Message Device (PLDMD), or the Back-up Computer System (BUCS) (military version of Hewlett-Packard 71B (16K) computer); installs and operates digital message systems, FM radio transmitter/receiver and secures voice equipment; operates and maintains vehicles, equipment, and generators; uses data from standardized tables to calculate data for nonstandard conditions. *Skill Level 20:* Able to perform the duties required for Skill Level 10; computes data for Lance targets; operates BUCS in Lance fire direction centers; assists in supervising and instructing fire direction center personnel; uses map reading skills in maintain-

ing situation maps. *Skill Level 30:* Able to perform the duties required for Skill Level 20; instructs personnel in techniques and procedures for manual computation of firing data; maintains target and mission reports; may serve in a high level Fire Support Element to provide guidance and advice on matters of employment of Lance missiles; instructs in the use and operation of FDS, PLDMD, and BUCS communications equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises FDC to insure accurate computations, plotting, and issuing of fire commands; organizes work schedules and assigns duties to FDC personnel; instructs and supervises personnel; prepares technical, personnel, and administrative reports of section activities; provides emergency action plans and information in a Lance unit.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (6/89).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (6/89).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 1 semester hour in applied mathematics, 1 in communications system operations, 1 in map reading, 2 in computer operations, 2 in principles of supervision, and 2 in communication skills (6/89).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in applied mathematics, 2 in communications system operations, 2 in map reading, 2 in computer operations, 3 in principles of supervision, 3 in communication skills, and 3 in personnel management (6/89).

MOS-13R-002

FIELD ARTILLERY FIREFINDER RADAR OPERATOR
13R10
13R20
13R30
13R40

Exhibit Dates: 1/90–Present.

Career Management Field: 13 (Field Artillery).

Description

Summary: Operates or supervises operation of artillery and mortar firefinder radars to locate hostile firing weapons and adjusts friendly artillery. *Skill Level 10:* Prepares radar set for operation; operates radar set; directs and reports system malfunctions; administers first aid. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; assists in radar emplacement; assists section chief; in the absence of the section chief, assumes duties of that position. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises operation of firefinder radar section; prepares for radar operation and site selection; instructs personnel in radar operation; supervises organizational maintenance. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises, trains, and evaluates subordinates; coordinates survey data and assists in site selection; prepares reports summarizing data obtained

from radar sections on troop strengths, logistics, surveillance techniques, and tactical operations.

Recommendation, Skill Level 10

In the vocational certificate category, 2 semester hours in radar operations. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/89).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in radar operations. In the lower-division baccalaureate/associate degree category, if served as section chief, 3 semester hours in principles of supervision and 3 in maintenance management. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (6/89).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in radar operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision, 3 in maintenance management, and 3 in communication skills (oral and written) (6/89).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in radar operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision, 3 in maintenance management, and 3 in communication skills (oral and written). In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (6/89).

MOS-13T-001

REMOTELY PILOTED VEHICLE CREWMEMBER
13T10
13T20
13T30
13T40

Exhibit Dates: Pending Evaluation. 1/90–Present.

MOS-13Z-001

FIELD ARTILLERY SENIOR SERGEANT
13Z50

Exhibit Dates: 1/90–1/92.

Career Management Field: 13 (Field Artillery).

Description

Serves as the principal noncommissioned officer in a major field artillery organization; supervises operations, intelligence activities, and liaison activities; assists superiors in planning, coordinating, and supervising all operations and personnel matters; holds meetings with subordinate noncommissioned officers to provide guidance and direction; directs on-the-job training; is a mid-level manager overseeing 45-150 persons. NOTE: May have progressed to 13Z50 from 13B40 (Field Artillery Crewman), 13W50 (Field Artillery Target Acquisition Senior Sergeant), or 13Y50 (Cannon/Missile Senior Sergeant).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in human relations, 6 for field experience in management, and additional credit in public speaking and for

an internship in education on the basis of institutional evaluation (4/77).

MOS-13Z-002

FIELD ARTILLERY SENIOR SERGEANT
13Z50

Exhibit Dates: 2/92–Present

Career Management Field: 13 (Field Artillery)

Description

Supervises operations, intelligence, fire support, and target acquisition activities in a field artillery battalion, brigade, division, or corps artillery unit; leads, supervises, and participates in all field artillery operations. **NOTE:** May progress to 13Z50 from Skill Level 40 of any of the following MOS's: 13B (Cannon Crewmember), 13C (TACFIRE Operations Specialist), 13E (Cannon Fire Direction Specialist), 13F (Fire Support Specialist), 13M (Multiple Launch Rocket System Crewmember), 13N (Lance Crewmember), 13P (Multiple Launch Rocket System/Lance Operations/Fire Direction Specialist), 13R (Field Artillery Firefinder Radar Operator), 13T (Remotely Piloted Vehicle Crewmember), 15E (Pershing Missile Crewmember), 17B (Field Artillery Radar Crewmember), 21G (Pershing Electronics Materiel Specialist), 82C (Field Artillery Surveyor), or 93F (Field Artillery Meteorological Crewmember).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 2 in records and information management, and 3 in military science. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management; if pay-grade E-9 has been attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (2/92).

MOS-14D-001

HAWK MISSILE SYSTEM CREWMEMBER
14D10
14D20
14D30
14D40

Exhibit Dates: 11/90–Present.

Career Management Field: 14 (Air Defense Artillery).

Description

Summary: Leads, supervises or serves as member of a command and acquisition, missile resupply, radar firing, and fire control section; maintains the Hawk missile launching and storage area and radar equipment and performs or supervises operations and intelligence functions. **Skill Level 10:** Serves as crewmember in preparing launching area equipment; assembles, operates, and maintains Hawk fire control equipment and engagement simulators; performs intelligence duties as required; operates vehicles; participates in emplacement of generators, trailers, pallets, loaders, launchers, and associated equipment; performs missile loading and unloading; performs arming and disarming functions; operates and performs preventive maintenance on generators, launchers, and associated equipment; observes proper safety precautions; operates and performs operator

maintenance, checks and makes adjustments on Hawk fire control and radar system; operates antijamming devices; prepares and posts daily journal, map overlays, and situation displays; operates radio and telephone equipment; assists organizational maintenance technicians. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; assists platoon leader in tactical procedures; performs preventive maintenance; consolidates information from other radar sections; processes intelligence reports; prepares and processes operations and training material; coordinates training activities; transmits intelligence and locations of incoming targets to concerned units; alerts firing batteries and advises of change orders; prepares efficiency reports on subordinates. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides guidance to subordinates; enforces safety practices and standards of readiness; conducts training; coordinates maintenance procedures; assists in establishment of command and operation centers; prepares efficiency reports. **Skill Level 40:** Able to perform the duties required for Skill Level 30; enforces standard of readiness; conducts training to support these standards; supervises operations of battle management centers; assists in planning, organizing, directing, supervising, training, coordinating, and reporting activities of subordinate sections.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulic systems and 3 in military science. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (3/92).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulic systems, 3 in military science, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 11/90-2/95 only) (3/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulic systems, 3 in military science, 3 in personnel supervision, and 2 in records and information management (3/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulic systems, 3 in military science, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (3/92).

MOS-14R-001

LINE OF SIGHT-FORWARD-HEAVY CREWMEMBER
14R10
14R20
14R30
14R40

Exhibit Dates: Pending Evaluation. 8/91–Present.

MOS-14S-001

AVENGER CREWMEMBER
14S10
14S20
14S30
14S40

Exhibit Dates: 4/91–Present.

Career Management Field: 14 (Air Defense Artillery).

Description

Summary: Supervises or serves as a member of an Avenger weapon unit. **Skill Level 10:** Prepares and fires Avenger weapon; identifies friendly and hostile aircraft; operates and assists in programming interrogator equipment; operates assigned vehicles, simulators, and interrogator and cryptological equipment; operates and maintains radio and/or wire communication with firing units and higher headquarters. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises operation of personnel in unit; assists in planning and conducting air defense; assigns personnel as required to provide air defense coverage in other units; supervises programming of interrogator equipment; supervises radio and wire communications and the issuance of ammunition. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises operation of Avenger platoon of at least 40 persons; assists in planning, organizing, directing, supervising, training, coordinating, and reporting activities of subordinate sections; assists in coordination and implementation of training programs, administrative matters, and communication activities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science. (NOTE: This recommendation for skill level 10 is valid for the dates 4/91-9/91 only) (3/92).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 4/91-2/95 only) (3/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management (3/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (3/92).

MOS-15E-003

PERSHING MISSILE CREW MEMBER
15E10
15E20
15E30
15E40

Exhibit Dates: 1/90-4/92. Effective 4/92, MOS 15E was discontinued.

Career Management Field: 13 (Field Artillery).

Description

Summary: Supervises or serves as a member of a Pershing missile crew. **Skill Level 10:** Under supervision, assists in launcher emplacement, assembly, disassembly, transporting, and storing of missile and missile components; uses radio and telephone communications equipment; operates gas turbine generator set; operates wrecker boom and tracked vehicles; performs maintenance on vehicles and field communications equipment; participates in emplacement and operation of azimuth reference unit; runs system diagnostics. **Skill Level 20:** Able to perform the duties required for Skill Level 10; operates equipment necessary to position launch vehicles and to assemble missiles; installs and monitors special equipment; operates erector launcher control panel during mating, recovery, and firing operations; is familiar with the mechanical technology of guided missiles, including thrust propulsion, energy conversion, hydraulics, and pneumatic systems; supervises operations performed by missile handlers while transporting and storing missiles and components; assists in supervising crew during missile prefire, firing, postfiring, assembly, and disassembly operations; supervision experience may vary. **Skill Level 30:** Able to perform the duties required for Skill Level 20; serves as section chief and first-line supervisor for 9-11 subordinates; supervises emplacement and preparation of missile for firing; supervises work techniques, work distribution, and maintenance; supervises positioning and operation of azimuth-laying equipment or azimuth reference unit; supervises missile storage, maintenance, assembly, disassembly, and firing procedures. **Skill Level 40:** Able to perform the duties required for Skill Level 30; is a first-line supervisor for 11 or more persons; supervises operation of firing, ammunition, or security platoon or battery control central section; supervises procurement, distribution, and testing of missile and missile components; serves as principal noncommissioned officer; prepares operation reports; participates in coordination and implementation of Pershing missile operation, training programs, administrative matters, and communication activities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in electromechanical and hydraulic systems troubleshooting and maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/89).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in electromechanical and hydraulic systems troubleshooting and maintenance; if served as section chief, team leader, or squad/shift leader, 3 semester hours in principles of supervision and 3 in maintenance management (6/89).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in electromechanical and hydraulic systems troubleshooting and maintenance, 3 in principles of supervision, 3 in maintenance management, and 3 in communication skills (oral and written) (6/89).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in electromechanical and hydraulic systems troubleshooting and maintenance, 3 in principles of supervision, 3 in maintenance management, and 3 in communication skills (oral and written). In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (6/89).

MOS-16D-001

HAWK MISSILE CREW MEMBER
(Hawk Missile Crewman)

16D10
16D20
16D30
16D40

Exhibit Dates: 1/90-2/92.

Career Management Field: 16 (Air Defense Artillery), subfield 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Serves as a member of or supervises the operation of a firing platoon, an assembly section, or a service and maintenance section of a Hawk missile battery. **Skill Level 10:** Maintains and prepares Hawk missile and associated equipment for launching; participates in the unloading and emplacement of equipment; assists in assembling, arming, and disarming the missile; performs routine preventive maintenance on launch and handling equipment; assists in performing checks and adjustments; observes safety precautions. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides guidance to subordinates. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises the assembly, testing, arming, disarming, loading, and unloading of Hawk missiles; supervises the transportation and emplacement of equipment; supervises preventive maintenance and coordinates organizational maintenance of launch and loading equipment. **Skill Level 40:** Able to perform the duties required for 16D30 or 16E30 (Hawk Fire Control Crewman); serves as platoon sergeant, supervising over 20 persons; plans and organizes security arrangements; interprets intelligence information; supervises maintenance of equipment.

Recommendation, Skill Level 10

Credit is not recommended because of the limited technical nature of the skills, competencies, and knowledge (2/76).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in hydraulic and electrohydraulic systems (2/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in hydraulic and electrohydraulic systems. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in hydraulic and electrohydraulic systems. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 3 for field experience in management (2/76).

MOS-16D-002

HAWK MISSILE CREWMEMBER

16D10
16D20
16D30
16D40

Exhibit Dates: 3/92-6/95. Effective 6/95, MOS 16D was discontinued.

Career Management Field: 14 (Air Defense Artillery).

Description

Summary: Serves as a member of or supervises the operation of a firing platoon, an assembly section, or a service and maintenance section of a Hawk missile battery. **Skill Level 10:** Maintains and prepares Hawk missile and associated launching/storage area equipment; participates in the unloading and emplacement of equipment; assists in assembling, arming, and disarming the missile; performs routine preventive maintenance on launch and handling equipment; assists in performing checks and adjustments; observes safety precautions. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides guidance to subordinates. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises the assembly, testing, arming, disarming, loading, and unloading of Hawk missiles; supervises the transportation and emplacement of equipment; supervises preventive maintenance and coordinates organizational maintenance of launch and loading equipment. **Skill Level 40:** Able to perform the duties required for Skill Level 30 of MOS 16D or 16E (Hawk Fire Control Crewmember); serves as platoon sergeant, supervising over 20 persons; plans and organizes security arrangements; interprets intelligence information; supervises maintenance of equipment. NOTE: May have progressed to 16D40 from 16D30 or 16E30 (Hawk Fire Control Crewmember).

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in hydraulic systems, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 3/92-2/95 only) (3/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in hydraulic systems, 3 in personnel supervision, and 2 in records and information management (3/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in hydraulic systems, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (3/92).

MOS-16E-001

HAWK FIRE CONTROL CREW MEMBER

16E10
16E20
16E30

Exhibit Dates: 1/90-2/92

Career Management Field: 16 (Air Defense Artillery), subfield 161 (Air Defense Artillery Missile and Gun Operations)

Description

Summary: Serves as a member of or supervises a command and acquisition section or firing section of a Hawk firing platoon. *Skill Level 10:* Operates fire control equipment or engagement simulator; operates and performs operator maintenance checks and adjustments on Hawk missile fire control equipment; observes safety precautions. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises approximately 10 persons operating Hawk fire control equipment; prepares radar coverage and clutter diagrams; determines known reference point; supervises moving and placement of equipment.

Recommendation, Skill Level 10

Credit is not recommended because of the limited technical nature of the skills, competencies, and knowledge (2/76).

Recommendation, Skill Level 20

Credit is not recommended because of the limited technical nature of the skills, competencies, and knowledge (2/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (2/76).

MOS-16E-002

HAWK FIRE CONTROL CREWMEMBER

16E10
16E20
16E30

Exhibit Dates: 3/92-6/95. Effective 6/95, MOS 16E was discontinued.

Career Management Field: 14 (Air Defense Artillery).

Description

Summary: Serves as a member of or supervises a command and acquisition section or firing section of a Hawk firing platoon. *Skill Level 10:* Operates fire control equipment or engagement simulator; operates and performs operator maintenance checks and adjustments on Hawk missile fire control equipment; observes safety precautions. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises persons operating Hawk fire control equipment; prepares radar coverage and clutter diagrams; determines known reference point; supervises moving and placement of equipment.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 3/92-2/95 only) (3/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management (3/92).

MOS-16F-001

LIGHT AIR DEFENSE ARTILLERY CREWMAN

(RESERVE FORCE)

16F10
16F20
16F30
16F40

Exhibit Dates: 1/90-9/90.

Career Management Field: 16 (Air Defense Artillery), subfield 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Supervises or serves as a member of a light air defense artillery automatic weapons, machine gun, or ammunition platoon, section, or squad. *Skill Level 10:* Loads ammunition and fires automatic weapons; operates computing sight; operates communications equipment; performs operator maintenance on automatic weapons; requisitions, receives, stores, and distributes ammunition. *Skill Level 20:* Able to perform the duties required for Skill Level 10; leads air defense artillery automatic weapons squad of approximately 10 persons; serves as assistant ammunition sergeant. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and coordinates the activities of subordinate squads; assures that operator maintenance standards are attained. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises the operations of an automatic weapons platoon of approximately 30 persons.

Recommendation, Skill Level 10

Credit is not recommended because the skills, competencies, and knowledge are uniquely military in nature (2/76).

Recommendation, Skill Level 20

Credit is not recommended because the skills, competencies, and knowledge are uniquely military in nature (2/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (2/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 3 for field experience in management (2/76).

MOS-16F-002

LIGHT AIR DEFENSE ARTILLERY CREWMEMBER

16F10
16F20
16F30
16F40

Exhibit Dates: 10/90-4/92. Effective 4/92, MOS 16F was discontinued.

Career Management Field: 14 (Air Defense Artillery).

Description

Summary: Supervises or serves as a member of a light air defense artillery automatic weapons, machine gun, or ammunition platoon, section, or squad. *Skill Level 10:* Loads

ammunition and fires automatic weapons; operates computing sight; operates communications equipment; performs operator maintenance on automatic weapons; requisitions, receives, stores, and distributes ammunition. *Skill Level 20:* Able to perform the duties required for Skill Level 10; leads air defense artillery automatic weapons squad; supervises battery ammunition section. *Skill Level 30:* Able to perform the duties required for Skill Level 20; leads air defense artillery automatic weapons squad; supervises battalion ammunition section and the operation of Army Air Defense command post. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises operations of an automatic weapons platoon.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science. (NOTE: This recommendation for skill level 10 is valid for the dates 9/90-9/91 only) (3/92).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science and 3 in personnel supervision (3/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management (3/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (3/92).

MOS-16H-001

AIR DEFENSE ARTILLERY OPERATIONS AND

INTELLIGENCE ASSISTANT

16H10
16H20
16H30
16H40

Exhibit Dates: 1/90-9/90. Effective 9/90, MOS 16H was discontinued and its duties were incorporated into MOS's 16F, Light Air Defense Artillery Crewmember; 16J, Forward Area Alerting Radar Operator; 16P, Chaparral Crewmember; 16R, Vulcan Crewmember; and 16S, Man Portable Air Defense System or Pedestal Mounted Stinger Crewmember.

Career Management Field: 16 (Air Defense Artillery), subfield 162 (Air Defense Operations and Intelligence).

Description

Summary: Supervises or serves as a member of an air defense artillery activity engaged in operations or intelligence in order to prepare and revise operations data and situation maps. *Skill Level 10:* Performs plotting and operations or intelligence duties in an air defense artillery unit; plots, reports, and records operations or intelligence information by preparing charts, overlays, strip maps, training aids, logs, reports, and correspondence; installs and operates field telephone equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; collects and consolidates information from

related units; prepares training materials and coordinates training activities; transmits intelligence and grid locations to other units. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises operations; demonstrates correct procedures and techniques; supervises the preparation of situation maps and overlays; coordinates operations and intelligence data; supervises operation of communications equipment. *Skill Level 40:* Able to perform the duties required for 16H30 or 16J30 (Defense Acquisition Radar Operator); as a first sergeant, supervises 20 or more persons in an airspace control element; supervises and evaluates training; prepares operations plans; assists in reconnaissance.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading (2/76).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading (2/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading and 3 in human relations (2/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management (2/76).

MOS-16J-001

DEFENSE ACQUISITION RADAR CREWMAN

16J10
16J20
16J30

Exhibit Dates: 1/90-9/90.

Career Management Field: 16 (Air Defense Artillery), subfield 162 (Air Defense Artillery Operations and Intelligence).

Description

Summary: Supervises or serves as a member of a defense acquisition radar section or a forward area alerting radar unit. *Skill Level 10:* Operates radars and IFF (identification-friend-or-foe) equipment to obtain early warning and target identification data; manipulates radar adjustments to achieve optimum operating performance; observes, tracks, and interprets targets; reads topographic maps to locate points by means of coordinates; prepares grid overlays to plot positions; employs electronic countermeasures to avoid signal jamming; prepares records; performs operator maintenance; follows safety procedures; uses special test equipment to insure proper radar operation and maintenance; installs and operates communications equipment; operates power generating equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises over 20 persons; supervises operation and maintenance of radar and related equipment; directs on-the-job training; maintains equipment records; interprets intelligence information.

Recommendation, Skill Level 10

In the vocational certificate category, credit in surveying on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading (2/76).

Recommendation, Skill Level 20

In the vocational certificate category, credit in surveying on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading (2/76).

Recommendation, Skill Level 30

In the vocational certificate category, credit in surveying on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading and 3 in human relations (2/76).

MOS-16J-002

FORWARD AREA ALERTING RADAR CREWMAN

16J10
16J20
16J30
16J40

Exhibit Dates: 10/90-4/92. Effective 4/92, MOS 16J was discontinued and its duties were incorporated into MOS 14J, Early Warning System Operator.

Career Management Field: 14 (Air Defense Artillery).

Description

Summary: Supervises or serves as a member of a forward area alerting radar section or unit. *Skill Level 10:* Operates radars and IFF (identification-friend-or-foe) equipment to obtain early warning and target identification data; manipulates radar adjustments to achieve optimum operating performance; observes, tracks, and interprets targets; reads topographic maps to locate points by means of coordinates; prepares grid overlays to plot positions; employs electronic countermeasures to avoid signal jamming; prepares records; performs operator maintenance; follows safety procedures; uses special test equipment to insure proper radar operation and maintenance; installs and operates power generating equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the operation and maintenance of radar and related equipment; directs on-the-job training; maintains equipment records; interprets intelligence information. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in design of air defense artillery defenses and in conduct of reconnaissance, selection, and occupation of position.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science. (NOTE: This recommendation for skill level 10 is valid for the dates 9/90-9/91 only) (3/92).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science and 3 in personnel supervision (3/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military

science, 3 in personnel supervision, and 2 in records and information management (3/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (3/92).

MOS-16P-002

CHAPARRAL CREWMEMBER

16P10
16P20
16P30
16P40

Exhibit Dates: 1/90-2/92.

Career Management Field: 16 (Air Defense Artillery).

Description

Summary: Supervises or serves as a crewman in a Chaparral system unit or as a gunner in a Redeye section. *Skill Level 10:* Prepares Chaparral fire unit for firing; prepares and fires Redeye missiles; stores ammunition; operates Chaparral unit equipment, including tracked vehicles, power generating equipment, target alert area display set, and fire control devices; assists in equipment maintenance. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; prepares and fires Chaparral missiles; leads Redeye team. *Skill Level 30:* Able to perform the duties required for Skill Level 20; leads Chaparral squad; is chief of Redeye section; supervises persons engaged in storing, loading, and transporting ammunition; supervises operation and operator maintenance on the equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as platoon sergeant; plans, organizes, directs, supervises, trains, coordinates, and reports activities of subordinate squads and sections; supervises platoon maintenance activities; supervises 20-30 persons; prepares and issues platoon operation orders.

Recommendation, Skill Level 10

Credit is not recommended because the skills, competencies, and knowledge are uniquely military (11/88).

Recommendation, Skill Level 20

Credit is not recommended because the skills, competencies, and knowledge are uniquely military (11/88).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (11/88).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 3 for field experience in management (11/88).

MOS-16P-003

CHAPARRAL CREWMEMBER

16P10
16P20
16P30
16P40

Exhibit Dates: 3/92-Present.

Career Management Field: 14 (Air Defense Artillery)

Description

Summary: Supervises or serves as a crewman in a Chaparral fire unit or platoon. *Skill Level 10:* Prepares Chaparral fire unit for firing; stores ammunition; operates Chaparral unit equipment, including tracked vehicles, power generating equipment, target alert area display set, and fire control devices; assists in equipment maintenance. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; leads Chaparral squad; supervises persons engaged in storing, loading, and transporting ammunition; supervises operation and operator maintenance on the equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; plans, organizes, directs, supervises, trains, coordinates, and reports activities of subordinate squads and sections; supervises platoon maintenance activities; prepares and issues platoon operation orders.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 9/92-2/95 only) (3/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management (3/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (3/92).

MOS-16R-002

AIR DEFENSE ARTILLERY SHORT RANGE GUNNERY CREWMAN

(Short Range Air Defense Artillery Crewman)

(Area Air Defense Artillery Crewman)

16R10

16R20

16R30

16R40

Exhibit Dates: 1/90-9/90.

Career Management Field: 16 (Air Defense Artillery), subfield 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Supervises or serves as a crewman in a Vulcan system section or serves as a platoon sergeant in a Chaparral or Vulcan platoon. *Skill Level 10:* Prepares and assists in firing Vulcan antiaircraft gun; operates and performs operator maintenance on wheeled and tracked vehicles, power generating equipment, communications equipment, and fire control devices; handles ammunition; assists in the emplacement and displacement of the weapons

system, assists in performance of routine maintenance. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises equipment operation and operator maintenance; supervises the emplacement and displacement of weapons system; supervises squad training and coordinates squad activities. *Skill Level 40:* Able to perform the duties required for 16R30 or 16P30 (Air Defense Artillery Short Range Missile Crewman or Chaparral Crewman); serves as platoon sergeant in a Chaparral or Vulcan platoon of more than 20 persons; assists superiors in planning, directing, training, coordinating, and reporting the activities of the platoon.

Recommendation, Skill Level 10

Credit is not recommended because the skills, competencies, and knowledge are uniquely military (2/76).

Recommendation, Skill Level 20

Credit is not recommended because the skills, competencies, and knowledge are uniquely military (2/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (2/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 3 for field experience in management (2/76).

MOS-16R-003

VULCAN CREWMEMBER

16R10

16R20

16R30

16R40

Exhibit Dates: 10/90-Present.

Career Management Field: 14 (Air Defense Artillery).

Description

Summary: Supervises or serves as a crewman in a Vulcan fire unit or platoon. *Skill Level 10:* Prepares and assists in firing Vulcan antiaircraft gun; operates and performs operator maintenance on wheeled and tracked vehicles and fire control units; handles ammunition; assists in the emplacement and displacement of the weapons system; assists in performance of routine maintenance. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; supervises/instructs in loading/unloading Vulcan ammunition. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises equipment operation and operator maintenance; supervises the emplacement and displacement of weapons system; supervises squad training and coordinates squad activities. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises the operations and maintenance of airspace control element; assists in design of air defense artillery defense and in conduct of reconnaissance, selection, and occupation of position.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science. (NOTE: This recommendation for skill

level 10 is valid for the dates 9/90-9/91 only) (3/92).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 9/90-2/95 only) (3/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management (3/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (3/92).

MOS-16S-001

MAN PORTABLE AIR DEFENSE SYSTEM (MANPADS) CREWMAN

16S10

16S20

16S30

16S40

Exhibit Dates: 1/90-9/90.

Career Management Field: 16 (Air Defense Artillery), subfield 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Supervises or serves as a member of MANPADS missile unit. *Skill Level 10:* Prepares and fires MANPADS missiles; identifies friendly and hostile aircraft; operates and assists in programming interrogator equipment; operates assigned vehicles, simulators, and interrogator and cryptological equipment; establishes and maintains radio and/or wire communication with firing units and higher headquarters. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises operation of MANPADS section; assists in planning and conducting air defense; assigns personnel as required to provide air defense coverage to other units; supervises programming of interrogator equipment; supervises radio and wire communications and the issuance of ammunition. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises operation of MANPADS platoon; assists in planning, organizing, directing, supervising, training, coordinating, and reporting activities of subordinate sections; assists in coordination and implementation of training programs, administrative matters, and communication activities.

Recommendation, Skill Level 10

Credit is not recommended because the skills, competencies, and knowledge are uniquely military (7/82).

Recommendation, Skill Level 20

Credit is not recommended because the skills, competencies, and knowledge are uniquely military (7/82).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision (7/82).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 for field experience in management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (7/82).

MOS-16S-002

MAN PORTABLE AIR DEFENSE SYSTEM
(MANPADS) CREWMEMBER OR
PEDESTAL MOUNTED STINGER
CREWMEMBER
16S10
16S20
16S30
16S40

Exhibit Dates: 10/90–Present.

Career Management Field: 14 (Air Defense Artillery).

Description

Summary: Supervises or serves as a member of MANPADS missile unit. *Skill Level 10:* Prepares and fires MANPADS missiles; identifies friendly and hostile aircraft; establishes and maintains proper radio and wire communications with firing units and higher headquarters. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists in planning and conducting air defense; assigns personnel as required to provide air defense coverage to other units; supervises programming of interrogator equipment; supervises radio and wire communications and the issuance of ammunition. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises operation of platoon; assists in planning, organizing, directing, supervising, training, coordinating, and reporting activities of subordinate sections; assists in coordination and implementation of training programs, administrative matters, and communication activities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science. (NOTE: This recommendation for skill level 10 is valid for the dates 9/90-9/91 only) (3/92).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 9/90-2/95 only) (3/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management (3/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semes-

ter hours in organizational management and 3 for field experience in management (3/92).

MOS-16T-002

PATRIOT MISSILE CREWMEMBER
16T10
16T20
16T30
16T40

Exhibit Dates: 1/90–2/92.

Career Management Field: 16 (Air Defense Artillery).

Description

Summary: Supervises or serves as a crewmember in a Patriot air defense unit. *Skill Level 10:* Drives heavy equipment to move missile system to site; sets up and performs operator maintenance on system; operates truck, electrical generator, and launcher; may include familiarization with general surveying techniques. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; assists in supervising on-the-job training. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises emplacement of launching and fire control equipment; supervises crew maintenance of Patriot and related equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in planning, organizing, directing, supervising, training, coordinating, and reporting activities of subordinate sections and squads.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in heavy truck operation. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (11/86).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in heavy truck operation (11/86).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in heavy truck operation. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision (11/86).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in heavy truck operation. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 in introduction to management. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for field experience in management (11/86).

MOS-16T-003

PATRIOT MISSILE CREWMEMBER
16T10
16T20
16T30
16T40

Exhibit Dates: 3/92–Present.

Career Management Field: 14 (Air Defense Artillery).

Description

Summary: Supervises or serves as a crewmember in a Patriot air defense unit. *Skill Level 10:* Drives heavy equipment to move missile system to site; sets up and performs operator

maintenance on system; operates truck, electrical generator, and launcher. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises emplacement of launching and fire control equipment; supervises crew maintenance of Patriot and related equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in planning, organizing, directing, supervising, training, coordinating, and reporting activities of subordinate sections and squads.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in heavy equipment operation. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 3/92-2/95 only) (3/92).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in heavy equipment operation. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management (3/92).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in heavy equipment operation. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (3/92).

MOS-16Z-001

AIR DEFENSE ARTILLERY SENIOR SERGEANT
16Z50

Exhibit Dates: 1/90–2/92.

Career Management Field: 16 (Air Defense Artillery), subfield 160 (Air Defense Artillery General).

Description

Serves as the principal noncommissioned officer in an air defense artillery unit or headquarters and supervises 44 or more persons; assists superiors in the appraisal of air defense artillery operations, training, and intelligence information; prepares status board and situation map; collects, interprets, evaluates, and disseminates intelligence data; prepares and edits training and intelligence material and the operations manual; supervises security; advises superiors on all personnel matters; coordinates operation of battery food service and supply activities; assists superiors in planning, coordinating, and directing all air defense artillery activities. NOTE: May have progressed to 16Z50 from Skill Level 40 of any MOS in the air defense artillery career management field (16).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in technical writing, 3 in public

speaking, 3 in map reading and additional credit in electronics and mechanical maintenance on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in human relations, 6 for field experience in management, and additional credit in industrial arts education on the basis of institutional evaluation (2/76).

MOS-16Z-002

AIR DEFENSE ARTILLERY SENIOR SERGEANT
16Z50

Exhibit Dates: 3/92-Present

Career Management Field: 14 (Air Defense Artillery).

Description

Serves as the principal noncommissioned officer in the supervision of an air defense artillery unit or headquarters; assists superiors in the appraisal of air defense artillery operations, training, and intelligence information; prepares status board and situation map; collects, interprets, evaluates, and disseminates intelligence data; prepares and edits training and intelligence material and the operations manual; supervises security; advises superiors on all personnel matters; assists superiors in planning, coordinating, and directing all air defense artillery activities. **NOTE:** May have progressed to 16Z50 from Skill Level 40 of MOS 14D (Hawk Missile System Crewmember), 16D (Hawk Missile Crewmember), 16F (Light Air Defense Artillery Crewmember), 16J (Forward Area Alerting Radar Operator), 16P (Chaparral Crewmember), 16R (Vulcan Crewmember), 16S (Man Portable Air Defense System Crewmember), or 16T (Patriot Missile Crewmember).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management; if individual has attained pay grade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (3/92).

MOS-17B-002

FIELD ARTILLERY RADAR CREWMEMBER
17B10
17B20
17B30
17B40

Exhibit Dates: 1/90-2/92.

Career Management Field: 13 (Field Artillery), subfield 132 (Field Artillery Target Acquisition Operations).

Description

Summary: Engages in operation of counterfire and moving target locating radars and associated equipment. **Skill Level 10:** Emplaces and conceals equipment; operates power unit; operates and performs minor maintenance on radars and associated equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; prepares site evaluation chart and surveillance cards; performs traverse to locate radar

and establish directional control; assists in scheduling maintenance on radar and associated equipment; directs radar operations during periods of interference and jamming; employs electronic counter countermeasures. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises a radar section of approximately seven persons; selects and evaluates emplacement sites; instructs radar operators in radar techniques and procedures; plans and organizes work schedules; assures adherence to safety procedures involving radar operation and maintenance. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises operation of radar platoon of approximately 20 persons; supervises and directs operation of radar sections; assists platoon commander in supervision of platoon operations, training, resupply, and maintenance; conducts reconnaissance and selection of tactical area for radar; prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour for field experience in electromechanical maintenance, 1 in basic mathematics, and 1 in map reading. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (4/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour for field experience in electromechanical maintenance, 1 in basic mathematics, and 1 in map reading (4/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 2 in communication skills, 2 in human relations, 2 in personnel supervision, 1 for field experience in electromechanical maintenance, 1 in basic mathematics, and 1 in map reading (4/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in communication skills, 3 in human relations, 3 in personnel supervision, 1 for field experience in electromechanical maintenance, 1 in basic mathematics, and 1 in map reading (4/77).

MOS-17B-003

FIELD ARTILLERY RADAR CREWMEMBER
17B10
17B20
17B30
17B40

Exhibit Dates: 3/92-6/94. Effective 6/94, MOS 17B was discontinued.

Career Management Field: 13 (Field Artillery).

Description

Summary: Supervises or participates in operation of counterfire and moving target radars and associated equipment. **Skill Level 10:** Emplaces and conceals equipment; operates power unit; operates and performs minor maintenance on radars and associated equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; prepares site evaluation chart and surveillance cards; assists in scheduling maintenance on radar and associated

equipment; directs radar operations during periods of interference and jamming; employs electronic counter countermeasures. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises a radar section; selects and evaluates emplacement sites; instructs radar operators in radar techniques and procedures; plans and organizes work schedules; assures adherence to safety procedures involving radar operation and maintenance. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises operation of radar platoon; supervises and directs operation of radar sections; assists platoon commander in supervision of platoon operations, training, resupply, and maintenance; conducts reconnaissance and selection of tactical area for radars; prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science and 3 in personnel supervision (3/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management (3/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (3/92).

MOS-18B-001

SPECIAL FORCES WEAPONS SERGEANT
(Special Operations Weapons Sergeant)
18B30
18B40

Exhibit Dates: 1/90-Present.

Career Management Field: 18 (Special Operations).

Description

Summary: Duties primarily involve participation in a special operations team or detachment involving unconventional warfare, foreign internal defense, strike operations, strategic reconnaissance, and counterterrorism; the operational detachment works unilaterally or with foreign military forces; duties frequently require regional orientation, including foreign language proficiency and in-country experience; duties include participation in waterborne, jungle, desert, mountain, and winter operations; many of the duties are highly classified. Serves as a detachment member in military operations, foreign internal defense, unconventional warfare, and counterterrorist operations; employs warfare tactics and techniques in small arms, antiaircraft, and antiarmor weapons; recruits, organizes, and trains forces. **Skill Level 30:** Conducts training in light infantry tactics and combat operations; prepares and teaches weapons skills to detachment members, indigenous, and nonindigenous personnel; reads and interprets maps and aerial photos; writes reports. **Skill Level 40:** Able to perform the duties required for Skill Level 30; provides tac-

tical and technical guidance to detachment members; leads and trains small light infantry tactical units in highly specialized combat operations.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical report writing. In the upper-division baccalaureate category, 3 semester hours for a practicum in instructional techniques (5/87).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical report writing. In the upper-division baccalaureate category, 3 semester hours for a practicum in instructional techniques (5/87).

MOS-18C-001

SPECIAL FORCES ENGINEER SERGEANT
(Special Operations Engineer Sergeant)
18C30
18C40

Exhibit Dates: 1/90–Present.

Career Management Field: 18 (Special Operations).

Description

Summary: Duties primarily involve participation in a special operations team or detachment involving unconventional warfare, foreign internal defense, strike operations, strategic reconnaissance, and counterterrorism; the operational detachment works unilaterally or with foreign military forces; duties frequently require regional orientation, including foreign language proficiency and in-country experience; duties include participation in waterborne, jungle, desert, mountain, and winter operations; many of the duties are highly classified. Performs, supervises, and instructs in engineering techniques and operations employed in warfare; advises, trains, and assists foreign nationals in their own environment. *Skill Level 30:* Performs the duties of a combat engineer and demolition specialist; leads, supervises, plans, and conducts training in all special operations engineering duties; writes reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; leads, supervises, plans, and instructs in all phases of combat engineering and special operations engineering; provides technical guidance to subordinates and other special operations detachment members.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in construction technology and 3 in technical report writing. In the upper-division baccalaureate category, 3 semester hours in construction project management, 3 for a practicum in instructional techniques, 6 for field experience in construction, and 3 for field experience in management (5/87).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in construction technology and 3 in technical report writing. In the upper-division baccalaureate category, 3 semester hours in construction project management, 3 for a practicum in instructional techniques, 6 for field experience in construction, and 3 for field experience in management (5/87).

MOS-18D-001

SPECIAL FORCES MEDICAL SERGEANT
(Special Operations Medical Sergeant)
18D30
18D40

Exhibit Dates: 1/90–Present.

Career Management Field: 18 (Special Operations).

Description

Summary: Duties primarily involve participation in a special operations team or detachment involving unconventional warfare, foreign internal defense, strike operations, strategic reconnaissance, and counterterrorism; the operational detachment works unilaterally or with foreign military forces; duties frequently require regional orientation, including foreign language proficiency and in-country experience; duties include participation in waterborne, jungle, desert, mountain, and winter operations; many of the duties are highly classified. Establishes field and unconventional warfare medical facilities to support operations; ensures medical preparedness. *Skill Level 30:* Provides emergency, routine, and long term medical care for special operations members, associated allied, and indigenous personnel; trains personnel in basic emergency and preventive medical care; operates with minimal or no medical supervision or assistance; examines and provides medical care for special operations detachment members; maintains records. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises routine and emergency field medical activities, patient care, and medical service activities.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 in technical report writing. In the upper-division baccalaureate category, 9 semester hours for a practicum in medical care, 3 for field experience in management, 3 in case studies in medicine, and 3 for a practicum in instructional techniques (5/87).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 in technical report writing. In the upper-division baccalaureate category, 9 semester hours for a practicum in medical care, 3 for field experience in management, 3 in case studies in medicine, and 3 for a practicum in instructional techniques (5/87).

MOS-18E-001

SPECIAL FORCES COMMUNICATIONS SERGEANT
(Special Operations Communications Sergeant)
18E30
18E40

Exhibit Dates: 1/90–Present.

Career Management Field: 18 (Special Operations).

Description

Summary: Duties primarily involve participation in a special operations team or detachment involving unconventional warfare, foreign internal defense, strike operations, strategic reconnaissance, and counterterrorism; the operational detachment works unilaterally or with foreign military forces; duties frequently

require regional orientation, including foreign language proficiency and in-country experience; duties include participation in waterborne, jungle, desert, mountain, and winter operations; many of the duties are highly classified. Installs, operates, supervises, and trains indigenous forces in the installation and operations of FM, AM, HF, VHF, and UHF/SHF radio communications equipment. *Skill Level 30:* Develops lesson plans and instructs military and nonmilitary personnel in the installation and use of radio communications equipment; writes reports; performs tests and maintains equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; prepares communication plans and annexes for commander of special operations detachment; supervises preparation of records and reports.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical report writing. In the upper-division baccalaureate category, 3 semester hours for a practicum in instructional techniques (5/87).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical report writing. In the upper-division baccalaureate category, 3 semester hours for a practicum in instructional techniques (5/87).

MOS-18F-001

SPECIAL FORCES INTELLIGENCE SERGEANT
(Special Operations Intelligence Sergeant)
18F30
18F40

Exhibit Dates: 1/90–Present.

Career Management Field: 18 (Special Operations).

Description

Summary: Duties primarily involve participation in a special operations team or detachment involving unconventional warfare, foreign internal defense, strike operations, strategic reconnaissance, and counterterrorism; the operational detachment works unilaterally or with foreign military forces; duties frequently require regional orientation, including foreign language proficiency and in-country experience; duties include participation in waterborne, jungle, desert, mountain, and winter operations; many of the duties are highly classified. Plans and executes small unit strike, foreign internal defense, unconventional warfare, and counterterrorist operations. *Skill Level 30:* Recruits, organizes, trains, and supervises indigenous and nonindigenous forces; writes reports; coordinates and conducts training in intelligence subjects; performs security duties; able to use fingerprint identification, operate photographic equipment, develop and print film, prepare area studies, and conduct area assessments. *Skill Level 40:* Able to perform the duties required for Skill Level 30; prepares tactical exercise plans and scenarios; establishes intelligence nets; prepares agent reports; conducts agent handling and training; prepares physical security plans; provides technical and tactical guidance to special operations members in intelligence-related subjects; advises special operations commander on all intelligence-related matters.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical report writing. In the upper-division baccalaureate category, 3 semester hours for a practicum in instructional techniques and 3 for field experience in management (5/87).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical report writing. In the upper-division baccalaureate category, 3 semester hours for a practicum in instructional techniques and 3 for field experience in management (5/87).

MOS-18Z-001**SPECIAL FORCES SENIOR SERGEANT**

(Special Operations Senior Sergeant)
18Z50

Exhibit Dates: 1/90–Present.

Career Management Field: 18 (Special Operations).

Description

Duties primarily involve participation in a special operations team or detachment involving unconventional warfare, foreign internal defense, strike operations, strategic reconnaissance, and counterterrorism; the operational detachment works unilaterally or with foreign military forces; duties frequently require regional orientation, including foreign language proficiency and in-country experience; duties include participation in waterborne, jungle, desert, mountain, and winter operations; many of the duties are highly classified. Heads, supervises, and serves as senior enlisted member for special operations activities; performs senior leadership, staff, and training functions within special operations; provides tactical and technical guidance and professional support to superiors and subordinates; recruits, organizes, trains, and supervises indigenous and nonindigenous personnel and organizations.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 in technical report writing. In the upper-division baccalaureate category, 3 semester hours for a practicum in instructional techniques and 3 for field experience in management (5/87).

MOS-19D-001**CAVALRY SCOUT**

19D10
19D20
19D30
19D40

Exhibit Dates: 1/90–12/90.

Career Management Field: 19 (Armor).

Description

Summary: Serves as a member or leads members of a scout crew, squad, section, or platoon in reconnaissance security and other combat operations. **Skill Level 10:** Serves as a member of observation and listening team; gathers and reports information on terrain features, enemy strength, disposition, and equipment; identifies targets; requests and adjusts indirect and aerial fire; operates wheeled and tracked vehicles and operates communications equipment; uses maps and map symbols; navigates on ground, uses compass and distinguishes topographic features, performs operator maintenance on scout vehicles, weapons, and communications equipment; assists in firing of crew-served weapons; performs first aid and applies field sanitation methods; uses radiac instruments and chemical detection kits. **Skill Level 20:** Able to perform the duties required for Skill Level 10; leads scout crew or assists squad leader; selects, organizes, and supervises operation of observation and listening posts; prepares, distributes, and files maps and overlays; reproduces, distributes, and files operations and intelligence information; coordinates with adjacent and supporting elements. **Skill Level 30:** Able to perform the duties required for Skill Level 20; leads scout squad or section; directs tactical deployment; leads in combat; supervises maintenance of assigned vehicles and equipment; evaluates routes, assembly areas, and positioning for mounted combat operations. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises armored cavalry or reconnaissance platoon and processes operations and intelligence information; assists in planning, organizing, directing, supervising, training, coordinating, and reporting activities of the scout or armored cavalry platoon and staff sections; directs distribution of fire; supervises platoon maintenance activities; collects, evaluates, and assists in interpretation and dissemination of combat information. **NOTE:** May have progressed to 19D40 from 19D30 or 19G30 (Armor Reconnaissance Vehicle Crewman).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid and 3 in map reading (11/79).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 3 in map reading, and 3 in record keeping (11/79).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 3 in map reading, 3 in record keeping, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (11/79).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 3 in map reading, 3 in record keeping, 3 in personnel supervision, and 3 in human relations. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (11/79).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid and 3 in map reading (11/79).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 3 in map reading, and 3 in record keeping (11/79).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 3 in map reading, 3 in record keeping, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (11/79).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid, 3 in map reading, 3 in record keeping, 3 in personnel supervision, and 3 in human relations. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (11/79).

MOS-19D-002**CAVALRY SCOUT**

19D10
19D20
19D30
19D40

Exhibit Dates: 1/91–Present

Career Management Field: 19 (Armor)

Description

Summary: Leads, serves, or assists as a member of a scout crew, squad, section, or platoon in reconnaissance security and other combat operations. **Skill Level 10:** Serves as a member of observation and listening team; gathers and reports information on terrain features, enemy strength, disposition, and equipment; identifies targets; requests and adjusts indirect and aerial fire; operates wheeled and tracked vehicles and operates communications equipment; uses maps and map symbols; navigates on ground; uses compass and distinguishes topographic features; assists in firing of crew-served weapons; assists mechanics and makes minor repairs on scout vehicles and tanks; performs first aid and applies field sanitation methods; uses radiac instruments and chemical detection kits. **Skill Level 20:** Able to perform the duties required for Skill Level 10; leads scout crew or assists squad leader; selects, organizes, and supervises operation of observation and listening posts; prepares, distributes, and files operations and intelligence information; coordinates with adjacent and supporting elements. **Skill Level 30:** Able to perform the duties required for Skill Level 20; leads scout squad or section; directs tactical deployment; leads in combat; supervises maintenance of assigned vehicles and equipment; evaluates routes, assembly areas, and positioning for mounted combat operations. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises armored cavalry or reconnaissance platoon; processes operations and intelligence information; assists in planning, organizing, directing, supervising, training, coordinating, and reporting activities of the scout or armored cavalry platoon and staff sections; directs distribution of fire; supervises platoon maintenance activities; collects, evaluates, and assists in interpretation and dissemination of combat information. **NOTE:** May have progressed to 19D40 from 19D30 or 19G30 (Armor Reconnaissance Vehicle Crewman).

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in automotive fundamentals, and 1 in first aid. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/91–9/91 only) (4/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in automotive fundamentals, 1 in first aid, and 3 in personnel supervision. (**NOTE:** This recommendation for skill level 20 is valid for the dates 1/91–2/95 only) (4/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in automotive fundamentals, 1 in first aid, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (4/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in automotive fundamentals, 1 in first aid, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (4/91).

mation management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (4/91).

MOS-19E-001

M48-M60A1/A3 ARMOR CREWMAN

19E10
19E20
19E30
19E40

Exhibit Dates: 1/90–12/90.

Career Management Field: 19 (Armor).

Description

Summary: Leads, supervises, or serves as a member of an armor tank unit. *Skill Level 10:* Secures, prepares, and stows communications equipment aboard vehicle; loads and unloads main gun; exercises safety precautions in handling of ammunition; installs and dismantles antennas; prepares radio equipment for operation and operates communications equipment; assists in target detection and identification; determines range to target; prepares range cards, reads maps, places turret in operation, and fires main gun; performs operator maintenance on turret, weapons, controls, and communications equipment; protects self, weapons, and equipment from chemical and other contaminants; employs principles of escape and evasion; administers first aid and applies field sanitation methods; breaches and clears minefields and obstacles. *Skill Level 20:* Able to perform the duties required for Skill Level 10; loads and fires main gun; leads ammunition supply section; helps process intelligence and operation data; provides technical guidance to subordinates; prepares, files, and distributes operation maps, situation maps, and overlays; reads and interprets maps and aerial photographs; reproduces, distributes, and files operation intelligence, administrative, and unit training documents, orders, publications, and evaluation results. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises subordinates; trains crews; requests, observes, and adjusts supporting fire. **NOTE:** May have progressed to 19E30 from 19E20 or 19F20 (Tank Driver). *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises tank platoon and processing of operations and intelligence information; assists in planning, organizing, directing, training, supervising, coordinating, and reporting activities of tank or staff sections; collects, evaluates, and assists in interpretation and dissemination of combat information.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid (11/79).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 1 in first aid, and 2 in record keeping (11/79).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate

degree category, 3 semester hours in map reading, 1 in first aid, 3 in personnel supervision, and 3 in record keeping. In the upper-division baccalaureate category, 3 semester hours for field experience in management (11/79).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 1 in first aid, 3 in record keeping, 3 in personnel supervision, and 3 in human relations. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (11/79).

MOS-19E-002

M48-M60 ARMOR CREWMAN

19E10
19E20
19E30
19E40

Exhibit Dates: 1/91–Present.

Career Management Field: 19 (Armor).

Description

Summary: Leads, supervises, or serves as a member of an armor tank unit. *Skill Level 10:* Secures, prepares, and stows communications equipment aboard vehicle; loads and unloads main gun; exercises safety precautions in handling of ammunition; installs and dismantles antennas; prepares radio equipment for operation and operates communications equipment; assists in target detection and identification; determines range to target; prepares range cards, reads maps, places turret in operation, and fires main gun; performs operator maintenance on components; protects self, weapons, and equipment from chemical and other contaminants; employs principles of escape and evasion; administers first aid and applies field sanitation methods; breaches and clears minefields and obstacles. *Skill Level 20:* Able to perform the duties required for Skill Level 10; loads and fires main gun; leads ammunition supply section; helps process intelligence and operation data; provides technical guidance to subordinates; prepares, files, and distributes operation maps, situation maps, and aerial photographs; reproduces, distributes, and files operation intelligence, administrative, and unit training documents, orders, publications, and evaluation results. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises subordinates; trains crews; requests, observes, and adjusts supporting fire. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises tank platoon and processing of operations and intelligence information; assists in planning, organizing, directing, training, supervising, coordinating, and reporting activities of tank or staff sections; collects, evaluates, and assists in interpretation and dissemination of combat information; provides counseling; maintains personnel records for performance ratings.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in automotive fundamentals, and 1 in first aid. (NOTE: This recommendation for skill level 10 is valid for the dates 1/91-9/91 only) (4/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in automotive fundamentals, 1 in first aid, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/91-2/95 only) (4/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in automotive fundamentals, 1 in first aid, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (4/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in automotive fundamentals, 1 in first aid, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (4/91).

MOS-19K-001

XM1 ARMOR CREWMAN

19K10
19K20
19K30
19K40

Exhibit Dates: 1/90–12/90.

Career Management Field: 19 (Armor).

Description

Summary: Leads, supervises, or serves as a member of XM1 armor unit in offensive and defensive combat operations. *Skill Level 10:* Drives tank, loads and fires main gun; exercises techniques of land navigation; reads and interprets maps; secures, prepares, and stows ammunition; installs and dismantles antennas; prepares and operates communications equipment; assists in target detection and identification; prepares range finder for operation; performs operator maintenance on turret, weapons, controls, and communication equipment; conducts operational checks; services and maintains tank chassis, turret, and automotive components. *Skill Level 20:* Able to perform the duties required for Skill Level 10; inspects automotive and turret components of platoon vehicles for malfunctions; assists in the training readiness of platoon drivers and the proficiency of gunners and loaders; processes intelligence and operational data. *Skill Level 30:* Able to perform the duties required for Skill Level 20; leads tank crew; coordinates action of tank with platoon and supporting elements; supervises crew operator maintenance; coordinates maintenance requirements; evaluates work of subordinates; ensures collection and proper reporting of intelligence data to units and responsible staff sections. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises tank platoon and processing of operations and intelligence data; assists in planning, organizing, directing, training, supervising, coordinating, and reporting of activities of tank or staff sections; supervises platoon maintenance activities; collects, evaluates, and assists in the interpretation and dissemination of combat information.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive maintenance and 3 in mechanical systems (7/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive maintenance and 3 in mechanical systems (7/82).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive maintenance, 3 in mechanical systems, and 3 in personnel supervision (7/82).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive maintenance, 3 in mechanical systems, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (7/82).

MOS-19K-002

M1 ARMOR CREWMAN

19K10

19K20

19K30

19K40

Exhibit Dates: 1/91–Present.

Career Management Field: 19 (Armor).

Description

Summary: Serves as a member or leads members of M1 armor unit in offensive and defensive combat operations. **Skill Level 10:** Drives tank; loads and fires main gun; exercises techniques of land navigation; reads and interprets maps; secures, prepares, and stows ammunition; installs and dismantles antennas; prepares and operates communications equipment; assists in target detection and identification; prepares range finder for operation; performs operator maintenance on turret, weapons, controls, and communication equipment; conducts operational checks; assists mechanics and makes minor repairs on tank turret and automotive components. **Skill Level 20:** Able to perform the duties required for Skill Level 10; inspects automotive and turret components of platoon vehicles for malfunctions; assists in the training readiness of platoon drivers and the proficiency of gunners and loaders; processes intelligence and operational data. **Skill Level 30:** Able to perform the duties required for Skill Level 20; leads tank crew; coordinates action of tank with platoon and supporting elements; supervises crew operator maintenance; coordinates maintenance requirements; evaluates work of subordinates; ensures collection and proper reporting of intelligence data to units and responsible staff sections. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises tank platoon and processing of operations and intelligence data; assists in planning, organizing, directing, training, supervising, coordinating, and reporting of activities of tank or staff sections; supervises platoon maintenance activities; collects, evaluates, and assists in the interpretation and dissemination of combat information.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in automotive fundamentals, and 1 in first aid. (NOTE: This recommendation for skill level 10 is valid for the dates 1/91–9/91 only) (4/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in automotive fundamentals, 1 in first aid, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/91–2/95 only) (4/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in automotive fundamentals, 1 in first aid, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (4/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in automotive fundamentals, 1 in first aid, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (4/91).

MOS-19Z-001

ARMOR SENIOR SERGEANT

19Z50

Exhibit Dates: 1/90–12/90.

Career Management Field: 19 (Armor).

Description

Plans, coordinates, and supervises activities of a unit; supervises operations, intelligence, or liaison activities; as intelligence sergeant, collects, interprets, analyzes, and distributes intelligence information; writes routine and special reports, commendations, and operations plans; edits and prepares tactical and training plans; coordinates and implements training programs and directs on-the-job training; is a mid-level manager overseeing 90–150 persons; assists in making formal briefing presentations and in presenting instruction to larger groups (30–70); provides formal and informal counseling to individuals and groups. (NOTE: May have progressed to 19Z50 from 19D40 (Cavalry Scout), 19E40 (M48–M60A1/A3 Armor Crewman), or 19J (M60A2 Armor Crewman).

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in personnel supervision, 3 in office management, 3 in report writing, and 3 in public speaking. In the upper-division baccalaureate category, 6 semester hours in personnel management, 6 for field experience in management, 3 in human relations, and 3 in report writing (11/79).

MOS-19Z-002

ARMOR SENIOR SERGEANT

19Z50

Exhibit Dates: 1/91–Present.

Career Management Field: 19 (Armor).

Description

Plans, coordinates, and supervises activities of a unit; supervises operations, intelligence, or liaison activities; as intelligence sergeant, collects, interprets, analyzes, and distributes intelligence information; writes routine and special reports, commendations, and operations plans; edits and prepares tactical and training plans; coordinates and implements training programs and directs on the job training; is a mid level manager overseeing 90–150 persons, assists in making formal briefing presentations and in presenting instruction to larger groups (30–70); provides formal and informal counseling to individuals and groups; works on budget with superiors, maintains computerized data file on past and future planned activity; provides daily briefing to staff sergeants, maintains computerized personnel data files, job evaluations, and awards. (NOTE: May have progressed to 19Z50 from 19D40 (Cavalry Scout), 19E40 (M48–M60 Armor Crewman), or 19K (M1 Armor Crewman).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, 3 in maintenance management, 2 in records and information management, 3 in office management, and 3 in report writing. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if individual has attained pay-grade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (4/91).

MOS-21G-004

PERSHING ELECTRONICS MATERIEL SPECIALIST

21G10

21G20

21G30

21G40

Exhibit Dates: 1/90–4/92. Effective 4/92, MOS 21G was discontinued.

Career Management Field: 13 (Field Artillery).

Description

Summary: Supervises or performs inspection, checkout, and troubleshooting on electronic, mechanical, hydraulic, and pneumatic equipment associated with the Pershing missile system. **Skill Level 10:** Operates and performs maintenance on the Pershing missile programmer-test station, missile, missile trainer, erector-launcher, power station, and associated equipment; performs limited isolation of malfunctioning equipment and components through the use of computer and adapter diagnostic program tapes. **Skill Level 20:** Able to perform the duties required for Skill Level 10; performs detailed organizational maintenance of the system and provides technical guidance to operators; isolates malfunctioning equipment and components through manual troubleshooting techniques, using volt ohm meters and functional schematics; adjusts or replaces malfunctioning components; prepares maintenance and supply forms and reports; in the absence of a supervisor or section chief, assumes duties of those positions. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises maintenance activities; supervises the preparation of technical forms and reports;

coordinates activities with supporting maintenance units; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; supervises the requisitioning and storage of supplies and repair parts. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises battery level organizational maintenance of Pershing missile system electronic equipment; supervises preparation of technical forms and reports and battery requisitioning of missile supplies; serves as senior enlisted maintenance advisor for the battery and conducts instruction on equipment operation and maintenance.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical/electronic systems troubleshooting and maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/89).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical/electronic systems troubleshooting and maintenance; if served in a supervisory position, 3 semester hours in principles of supervision and 3 in maintenance management (6/89).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical/electronic systems troubleshooting and maintenance, 3 in principles of supervision, 3 in maintenance management, and 3 in communication skills (written and oral) (6/89).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical/electronic systems troubleshooting and maintenance, 3 in principles of supervision, 3 in maintenance management, and 3 in communication skills (written and oral). In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (6/89).

MOS-21L-002

PERSHING ELECTRONICS REPAIRER

21L10
21L20
21L30
21L40
21L50

Exhibit Dates: 1/90-9/91.

Career Management Field: 27 (Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance).

Description

Summary: Supervises or performs maintenance and repair of electronic, mechanical, hydraulic, and pneumatic systems and components associated with the Pershing missile system, using a theoretical and working knowledge of electronic, digital, and logic circuits. *Skill Level 10:* Performs maintenance on the programmer test station, items for the guidance and control section, training set and associated training equipment, and on-system test equipment; reads electronic schematics and uses a wide range of electronic meters, including scope, to inspect, test, and adjust components to specific tolerances; determines deficiencies and causes of malfunctions in electronic, electrical,

electromechanical, and pneumatic assemblies, subassemblies, modules, and circuit elements; determines serviceability and disposition of defective assemblies, subassemblies, and parts; serves on inspection teams. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; installs equipment modifications; provides technical assistance to support units. *Skill Level 30:* Able to perform the duties required for Skill Level 20; establishes work load and repair priorities; supervises receipt, storage, inspection, testing, and repair of items; implements quality control measures; organizes and conducts on-the-job training programs; determines faulty work practices and demonstrates proper maintenance techniques; establishes and maintains maintenance records; serves as maintenance inspector; may supervise six or more persons. *Skill Level 40:* Able to perform the duties required for Skill Level 30 of MOS 21L, 21G (Pershing Electronic Materiel Specialist), or 46N (Pershing Electrical-Mechanical Repairer); supervises maintenance on electronic and electromechanical systems and components of the missile system; serves as section chief or platoon sergeant of a detachment, platoon company, or comparable organization; supervises and assists in the development of quality control programs; may supervise seven or more persons. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises Pershing missile system maintenance activities; serves as maintenance chief; may supervise 30 or more persons; serves as principal noncommissioned officer in a missile maintenance unit.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in basic electronics and 9 in computer fundamentals. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 3 in basic electronics, 3 in computer fundamentals, and 3 in technical mathematics (6/79).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic electronics and 9 in computer fundamentals. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 3 in basic electronics, 3 in computer fundamentals, and 3 in technical mathematics (6/79).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in basic electronics and 9 in computer fundamentals. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 3 in basic electronics, 3 in computer fundamentals, 3 in technical mathematics, 3 in maintenance management, 3 in personnel supervision, and 3 in human relations (6/79).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in basic electronics and 9 in computer fundamentals. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 3 in basic electronics, 3 in computer fundamentals, 3 in technical mathematics, 3 in maintenance management, 3 in personnel supervision, 3 in human relations, and 2 in communication skills. In the upper-division baccalaureate category, 3 semester hours in introduction to management,

3 for field experience in management, and 3 in industrial arts education (electronics) (6/79).

Recommendation, Skill Level 50

In the vocational certificate category, 6 semester hours in basic electronics and 9 in computer fundamentals. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 3 in basic electronics, 3 in computer fundamentals, 3 in technical mathematics, 3 in maintenance management, 3 in personnel supervision, 3 in human relations, 2 in communication skills, and 3 for field experience in management. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 6 for field experience in management, 3 in industrial arts education (electronics), and 3 in personnel management (6/79).

MOS-21L-003

PERSHING ELECTRONICS REPAIRER

21L10
21L20
21L30
21L40
21L50

Exhibit Dates: 10/91-12/91. Effective 12/91, MOS 21L was discontinued.

Career Management Field: 27 (Land Combat and Air Defense System Direct and General Support Maintenance).

Description

Summary: Supervises or performs maintenance and repair of electronic, mechanical, hydraulic, and pneumatic systems and components associated with the Pershing missile system, using a theoretical and working knowledge of electronic, digital, and logic circuits. *Skill Level 10:* Performs maintenance on the programmer test station, items for the guidance and control section, training set and associated training equipment, and on-system test equipment; reads electronic schematics and uses a wide range of electronic meters, including scope, to inspect, test, and calibrate circuits to specific tolerances using computerized test set; identifies and corrects faults in electronic, electrical, electromechanical, and pneumatic assemblies, subassemblies, modules, and circuit elements; determines serviceability and disposition of defective assemblies, subassemblies, and parts; serves on inspection teams. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; installs minor equipment modifications; provides technical assistance to support units. *Skill Level 30:* Able to perform the duties required for Skill Level 20; establishes work load and repair priorities; supervises receipt, storage, inspection, testing, and repair of items; implements quality control measures; organizes and conducts on-the-job training program; demonstrates proper work practices and maintenance techniques; establishes and maintains maintenance records; serves as maintenance inspector; may supervise six or more persons. *Skill Level 40:* Able to perform the duties required for Skill Level 30 of MOS 21L or 46N (Pershing Electrical-Mechanical Repairer); supervises maintenance on electronic and electromechanical systems and components of the missile system; serves as section chief or platoon sergeant of a detachment, platoon company, or comparable organization; supervises and assists in the development of quality con-

trol programs, may supervise seven or more persons. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises Pershing missile system maintenance activities; serves as maintenance chief; may supervise 30 or more persons; serves as principal noncommissioned officer in a missile maintenance unit. **NOTE:** May progress to 21L50 from 21L40 or 46N40 (Pershing Electrical Mechanical Repairer).

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in computer systems troubleshooting and maintenance, 3 in electronic systems troubleshooting and maintenance, 3 in computer literacy, and 3 in personnel supervision (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in computer systems troubleshooting and maintenance, 3 in electronic systems troubleshooting and maintenance, 3 in computer literacy, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (9/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in computer systems troubleshooting and maintenance, 3 in electronic systems troubleshooting and maintenance, 3 in computer literacy, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (9/91).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in computer systems troubleshooting and maintenance, 3 in electronic systems troubleshooting and maintenance, 3 in computer literacy, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (9/91).

MOS-23R-001

HAWK MISSILE SYSTEM MECHANIC

23R10
23R20
23R30
23R40
23R50

Exhibit Dates: 3/90–Present.

Career Management Field: 23 (Air Defense System Maintenance).

Description

Summary: Supervises or performs maintenance on Hawk PIP III missile system and associated equipment. *Skill Level 10:* Performs equipment checks and adjustments; trouble-

shoots and repairs to the block diagram level; assists in the training of operators and provides technical assistance in conduct of operational and maintenance inspections involving electrical, mechanical, and hydraulic systems. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; supervises maintenance; completes maintenance forms and records; installs equipment modifications; initiates requests for spare parts, test equipment, tools, and supplies. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and performs technical inspections; supervises preparation of maintenance forms and records; supervises and conducts training programs for operator and maintenance personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and coordinates equipment organizational maintenance; assists in establishing maintenance procedures; supervises the requisition of supplies and repair parts. *Skill Level 50:* Able to perform the duties required for Skill Level 40; evaluates, inspects, and coordinates maintenance activities; provides technical guidance to subordinates; advises battalion commander regarding unit maintenance program.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in radar systems, and 3 in digital electronics laboratory. In the upper-division baccalaureate category, 3 semester hours in hydraulic systems troubleshooting and maintenance and 3 in computer systems troubleshooting and maintenance. **(NOTE:** This recommendation for skill level 10 is valid for the dates 3/90-9/91 only) (6/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in radar systems, 3 in digital electronics laboratory, 2 in records and information management, 3 in personnel supervision, and 2 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in hydraulic systems troubleshooting and maintenance, 3 in computer systems troubleshooting and maintenance, and 3 in electronic systems troubleshooting. **(NOTE:** This recommendation for skill level 20 is valid for the dates 3/90-2/95 only) (6/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in radar systems, 3 in digital electronics laboratory, 2 in records and information management, 3 in personnel supervision, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in hydraulic systems troubleshooting and maintenance, 3 in computer systems troubleshooting and maintenance, and 3 in electronic systems troubleshooting (6/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in radar systems, 3 in digital electronics laboratory, 2 in records and information management, 3 in personnel supervision, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in hydraulic systems troubleshooting and maintenance, 3 in computer systems troubleshooting and maintenance, 3 in electronic systems trou-

bleshooting, 3 in organizational management, and 3 for field experience in management (6/91).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in radar systems, 3 in digital electronics laboratory, 2 in records and information management, 3 in personnel supervision, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in hydraulic systems troubleshooting and maintenance, 3 in computer systems troubleshooting and maintenance, 3 in electronic systems troubleshooting, 3 in organizational management, and 6 for field experience in management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communications techniques for managers (6/91).

MOS-24C-002

HAWK FIRING SECTION MECHANIC

(Improved Hawk Firing Section Mechanic)

24C10
24C20
24C30
24C40

Exhibit Dates: 1/90–5/91.

Career Management Field: 23 (Air Defense Missile Maintenance), subfield 235 (Improved Hawk Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on improved Hawk firing section equipment. *Skill Level 10:* Performs maintenance on Hawk or improved Hawk radar, missile launching control box, ptical, mechanical, and hydraulic systems of the launcher, transporter, and associated equipment; determines malfunction; performs repairs by replacing subassembly units; assists in orientation, alignment, and synchronization of equipment; assembles external hardware of missile; makes prescribed tests to determine operational and maintenance status. *Skill Level 20:* Able to perform the duties required for Skill Level 10; installs equipment modifications; supervises transfer and handling of missile; provides technical training to missile crew supervisory and operational personnel in arming and disarming missile; initiates requests for repair parts, test equipment, tools, and supplies. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical supervision in training programs for operator and maintenance personnel; demonstrates proper maintenance and troubleshooting techniques; supervises maintenance and inspection teams; supervises the preparation of technical forms and reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and coordinates organizational maintenance of Hawk or Improved Hawk firing section equipment.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in basic electricity and 3 in applied mathematics. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in AC/DC circuits, 1 in radar/microwave, 3 in technical mathematics, and additional credit in electron-

ics, mechanics, and hydraulics on the basis of institutional evaluation (1/80).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity and 3 in applied mathematics. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in AC/DC circuits, 1 in radar/microwave, 3 in technical mathematics, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic electricity and 3 in applied mathematics. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in AC/DC circuits, 1 in radar/microwave, 3 in technical mathematics, 3 in electronics shop practices, 3 in personnel supervision, and 2 in records and report preparation, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel management and 3 in industrial education (electronics) (1/80).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electricity and 3 in applied mathematics. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in AC/DC circuits, 1 in radar/microwave, 3 in technical mathematics, 3 in electronics shop practices, 3 in personnel supervision, 2 in records and reports preparation, and 3 in maintenance management, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel management, 3 in introduction to management, 3 in human relations, and 3 in industrial education (electronics) (1/80).

MOS-24C-003

HAWK FIRING SECTION MECHANIC

24C10
24C20
24C30

Exhibit Dates: 6/91-6/95. Effective 6/95, MOS 24C was discontinued.

Career Management Field: 23 (Air Defense System Maintenance).

Description

Summary: Supervises or performs maintenance on improved Hawk firing section equipment. **Skill Level 10:** Performs maintenance on Hawk radar, missile launching control box, and electrical, mechanical, and hydraulic systems of the launcher, transporter, and associated equipment; identifies malfunctions; performs repairs by replacing subassembly units; assists in orientation, alignment, and synchronization of equipment; assembles external hardware of missile; makes prescribed tests to determine operational and maintenance status. **Skill Level 20:** Able to perform the duties required for Skill Level 10; installs equipment modifications; supervises transfer and handling of missile; provides technical training to missile crew supervisory and operational personnel in arming and disarming missile; initiates requests for repair

parts, test equipment, tools, and supplies. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides technical supervision in training programs for operator and maintenance personnel; serves as maintenance team leader; demonstrates proper maintenance and troubleshooting techniques; supervises maintenance and inspection teams; supervises the preparation of technical forms and reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in radar systems. In the upper-division baccalaureate category, 3 semester hours in hydraulic systems troubleshooting. (NOTE: This recommendation for skill level 10 is valid for the dates 6/91-9/91 only) (6/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in radar systems, 3 in personnel supervision, 2 in records and information management, and 2 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in hydraulic systems troubleshooting and 3 in electronic systems troubleshooting. (NOTE: This recommendation for skill level 20 is valid for the dates 6/91-2/95 only) (6/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in radar systems, 3 in personnel supervision, 2 in records and information management, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in hydraulic systems troubleshooting and maintenance and 3 in electronic systems troubleshooting (6/91).

MOS-24G-003

HAWK INFORMATION COORDINATION CENTRAL

MECHANIC

(Improved Hawk Information Coordination
Central Mechanic)
24G10
24G20
24G30

Exhibit Dates: 1/90-5/91.

Career Management Field: 23 (Air Defense Missile Maintenance).

Description

Summary: Supervises or performs organizational maintenance on Hawk or improved Hawk information and coordination equipment. **Skill Level 10:** Performs equipment checks and adjustments; localizes malfunctions and repairs at the block diagram level; assists in the training of operators in operator maintenance; provides technical assistance in the conduct of operational and maintenance inspections. **Skill Level 20:** Able to perform the duties required for Skill Level 10; initiates requests for repair parts, tools, and supplies; completes maintenance and supply forms. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises training programs for operator and maintenance personnel; prepares forms and reports; demonstrates proper maintenance and troubleshooting techniques; supervises requisition and stocking of supplies and repair parts; organizes and supervises maintenance and inspection teams.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 3 in technical mathematics, 3 in electronic systems troubleshooting, 1 in microwave techniques, 3 in digital techniques, and credit in computer operations on the basis of institutional evaluation (12/84).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 3 in technical mathematics, 3 in electronic systems troubleshooting, 1 in microwave techniques, 3 in digital techniques, and credit in computer operations on the basis of institutional evaluation (12/84).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in electronics shop practices. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 3 in technical mathematics, 3 in electronic systems troubleshooting, 1 in microwave techniques, 3 in digital techniques, 3 in personnel supervision, and credit in computer operations on the basis of institutional evaluation (12/84).

MOS-24G-004

HAWK INFORMATION COORDINATION CENTRAL

MECHANIC

24G10
24G20
24G30

Exhibit Dates: 6/91-6/95. Effective 6/95, MOS 24G was discontinued.

Career Management Field: 23 (Air Defense Missile Maintenance).

Description

Summary: Supervises or performs organizational maintenance on Hawk information and coordination equipment. **Skill Level 10:** Performs equipment checks and adjustments; localizes malfunctions and repairs at the block diagram level; assists in the training of operators in operator maintenance and provides technical assistance in the conduct of operational and maintenance inspections. **Skill Level 20:** Able to perform the duties required for Skill Level 10; initiates requests for repair parts, tools, and supplies; serves as maintenance section team leader; provides technical supervision for training programs for operators; completes maintenance and supply forms. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises training programs for operator and maintenance personnel; prepares forms and reports; demonstrates proper maintenance and troubleshooting techniques; supervises requisition and stocking of supplies and repair parts; organizes and supervises maintenance and inspection teams.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in radar systems, and 3 in digital electronics laboratory. In the upper-division baccalaureate category, 3 semester hours in computer systems troubleshooting. (NOTE: This recommendation for skill level 10 is valid for the dates 6/91-9/91 only) (6/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in radar systems, 3 in digital electronics laboratory, 3 in personnel supervision, 2 in records and information management, and 2 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in computer systems troubleshooting and maintenance, and 3 in electronic systems troubleshooting (NOTE: This recommendation for skill level 20 is valid for the dates 6/91-2/95 only) (6/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in radar systems, 3 in digital electronics laboratory, 3 in personnel supervision, 2 in records and information management, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in computer systems troubleshooting and maintenance and 3 in electronic systems troubleshooting (6/91).

MOS-24H-003**HAWK FIRE CONTROL REPAIRER**

24H10

24H20

24H30

Exhibit Dates: 1/90-8/90.

Career Management Field: 23 (Air Defense Missile Maintenance), subfield 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises or performs maintenance and inspections of Hawk or improved Hawk battery control centers, including radar consoles, electronic systems, communications systems, computers, and various types of advanced electronic test equipment. *Skill Level 10:* Inspects, tests, and adjusts components to specific tolerances; determines shortcomings and malfunctions in electronic assemblies, sub-assemblies, modules, and circuit elements with common and system-specific test equipment; repairs unserviceable items by removing and replacing defective components and parts; determines serviceability and disposition of defective assemblies, subassemblies, modules, and circuit elements; performs quality control measures; serves on inspection teams; performs maintenance and repair on test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; installs electrical and electronic equipment modifications; provides technical assistance to supported units; completes maintenance and supply forms. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises subordinates; establishes work loads and repair priorities; recommends procedures for receipt, storage, inspection, testing, and repair of items; implements quality control measures; performs initial and final checkout and inspection of designated system items and their assemblies and subassemblies; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records; prepares maintenance reports.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in applied mathematics. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in basic electronics, 3 in electronic instruments, 3 in technical mathematics, and additional credit in electronics and technical mathematics on the basis of institutional evaluation (1/80).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in applied mathematics. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in basic electronics, 3 in electronic instruments, 3 in technical mathematics, and additional credit in electronics and technical mathematics on the basis of institutional evaluation (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in applied mathematics. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in basic electronics, 3 in electronic instruments, 3 in technical mathematics, 3 in electronics shop practices, 3 in personnel supervision, 2 in records and reports preparation, and additional credit in electronics and technical mathematics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel management (1/80).

MOS-24H-004**HAWK FIRE CONTROL REPAIRER**

24H10

24H20

24H30

24H40

Exhibit Dates: 9/90-Present.

Career Management Field: 27 (Land Combat and Air Defense System Direct and General Support Maintenance).

Description

Summary: Supervises or performs maintenance and inspection of Hawk or improved Hawk battery control centers including radar consoles, electronic systems, communications systems, computers, and various types of advanced electronic test equipment. *Skill Level 10:* Inspects, tests, and adjusts components to specific tolerances; determines shortcomings and malfunctions in electronic assemblies, sub-assemblies, modules, and circuit elements with common and system-specific test equipment; repairs unserviceable items by removing and replacing defective components and parts; determines serviceability and disposition of defective assemblies, subassemblies, modules, and circuit elements; performs quality control measures; serves on inspection teams; performs maintenance and repair on test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; installs electrical and electronic equipment modifications; provides technical assistance to supported units; performs initial and final equipment checkout and inspection of designated systems and their assemblies; supervises maintenance procedures; completes maintenance and supply forms. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises subordinates; establishes work loads and repair priorities; recommends procedures for receipt, storage, inspection, testing,

and repair of items; implements quality control measures; performs initial and final checkout and inspection of designated system items and their assemblies and subassemblies; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records; prepares maintenance reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and coordinates organizational maintenance; supervises the preparation of maintenance forms and records; serves as platoon sergeant.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in solid state electronics laboratory, and 3 in digital circuit laboratory. (NOTE: This recommendation for skill level 10 is valid for the dates 9/90-9/91 only) (6/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in solid state electronics laboratory, 3 in digital circuit laboratory, 3 in personnel supervision, 2 in records and information management, and 2 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in electronic systems troubleshooting. (NOTE: This recommendation for skill level 20 is valid for the dates 9/90-2/95 only) (6/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in solid state electronics laboratory, 3 in digital circuit laboratory, 3 in personnel supervision, 2 in records and information management, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in electronic systems troubleshooting (6/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in solid state electronics laboratory, 3 in digital circuit laboratory, 3 in personnel supervision, 2 in records and information management, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in electronic systems troubleshooting, 3 in organizational management, and 3 for field experience in management (6/91).

MOS-24K-003**HAWK CONTINUOUS WAVE RADAR REPAIRER**

24K10

24K20

24K30

Exhibit Dates: 1/90-8/90.

Career Management Field: 23 (Air Defense Missile Maintenance), subfield 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises or performs maintenance on Hawk or improved Hawk continuous wave radars and associated equipment. *Skill Level 10:* Performs support maintenance on electronic systems of continuous wave radars and special high-power illuminator radars asso-

ciated with the Hawk missile system; adjusts, inspects, and tests electronic assemblies, subassemblies, modules, and circuit elements, using common and specialized test equipment; performs initial and final checkout and inspections for the electronic portions of the radar systems; performs modifications and serves on inspection teams. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; installs equipment modifications and provides technical assistance to supported units; prepares maintenance records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; establishes work loads and repair priorities; implements quality control measures; performs initial and final checkout and inspection of the radar systems and their subassemblies; supervises inspection and maintenance teams; establishes and keeps maintenance records; prepares maintenance reports; organizes and conducts on-the-job training programs.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in applied mathematics, 3 in DC and AC circuits, 3 in electronic test procedures, 3 in tube and transistor circuits, and 1 in microwave techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 3 in elementary DC and AC circuits, 3 in introduction to tube and transistor circuits, and 1 in microwave laboratory (1/80).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in applied mathematics, 3 in DC and AC circuits, 3 in tube and transistor circuits, and 2 in microwave techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 3 in elementary DC and AC circuits, 3 in introduction to tube and transistor circuits, 3 in electronic test procedures, and 2 in microwave laboratory (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in applied mathematics, 3 in DC and AC circuits, 3 in tube and transistor circuits, and 2 in microwave techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 3 in elementary DC and AC circuits, 3 in introduction to tube and transistor circuits, 3 in electronic test procedures, 3 in microwave laboratory, 3 in personnel supervision, and 2 in records and reports preparation. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel management (1/80).

MOS-24K-004

HAWK CONTINUOUS WAVE RADAR REPAIRER

24K10
24K20
24K30
24K40

Exhibit Dates: 9/90–Present

Career Management Field: 27 (Land Combat and Air Defense System Direct and General Support Maintenance).

Description

Summary: Supervises or performs maintenance on Hawk continuous wave radars and associated equipment. *Skill Level 10:* Performs

support maintenance on electronic systems of continuous wave radars associated with the Hawk missile system; tests and adjusts components to specific tolerances and determines shortcomings and malfunctions in electronic assemblies, subassemblies, modules, and circuit elements with common and specialized test equipment; replaces unserviceable defective parts; determines serviceability and disposition of defective elements; performs quality control measures; serves on inspection teams. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; supervises maintenance procedures; installs equipment modifications and provides technical assistance to supported units; prepares maintenance records; performs initial and final checkout and inspection of designated system items and their assemblies. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises inspection and maintenance teams; establishes and keeps maintenance records; prepares maintenance reports; organizes and conducts on-the-job training programs; recommends procedures for receipt, storage, inspection, testing, and repair of items; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinates; serves as platoon sergeant; establishes work loads and repair priorities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in DC circuits, 2 in DC circuits laboratory, 3 in basic electronics, and 2 in basic electronics laboratory. In the upper-division baccalaureate category, 3 semester hours in electronic systems troubleshooting. (NOTE: This recommendation for skill level 10 is valid for the dates 9/90–9/91 only) (6/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in DC circuits, 2 in DC circuits laboratory, 3 in basic electronics, 2 in basic electronics laboratory, 3 in personnel supervision, 2 in records and information management, and 2 in maintenance management. In the upper-division baccalaureate category, 6 semester hours in electronic systems troubleshooting. (NOTE: This recommendation for skill level 20 is valid for the dates 9/90–2/95 only) (6/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in DC circuits, 2 in DC circuits laboratory, 3 in basic electronics, 2 in basic electronics laboratory, 3 in personnel supervision, 2 in records and information management, and 3 in maintenance management. In the upper-division baccalaureate category, 6 semester hours in electronic systems troubleshooting (6/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in DC circuits, 2 in DC circuits laboratory, 3 in basic electronics, 2 in basic electronics laboratory, 3 in personnel supervision, 2 in records and information management, and 3 in maintenance management. In the upper-division baccalaureate category, 6 semester hours in electronic systems troubleshooting, 3 in organizational

management, and 3 for field experience in management (6/91).

MOS-24M-002

VULCAN SYSTEM MECHANIC

24M10
24M20
24M30
24M40

Exhibit Dates: 1/90–5/91.

Career Management Field: 27 (Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance), subfield 272 (Light Air Defense Systems Maintenance).

Description

Summary: Supervises or performs maintenance on the Vulcan weapons system and the Forward Area Alerting Radar and associated equipment. *Skill Level 10:* Performs routine maintenance on range-only radar, the target display system, and test, diagnostic, and measuring equipment; maintains electromechanical and mechanical components associated with turret assemblies on Vulcan launch equipment; uses some basic test equipment including meters and oscilloscopes, as well as specialized test equipment; isolates malfunctions to the black box level. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises subordinates; assigns duties; maintains forms and records to insure proper maintenance procedures for all Chaparral systems. *Skill Level 40:* Able to perform the duties required for Skill Level 30; establishes maintenance procedures; conducts technical inspections; coordinates maintenance activities.

Recommendation, Skill Level 10

In the vocational certificate category, 2 semester hours in mechanical laboratory. In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (1/80).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in mechanical laboratory. In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in mechanical laboratory. In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel supervision, 3 in electronics and mechanical shop practices, 2 in maintenance management, and 2 in electronics laboratory (1/80).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in mechanical laboratory. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in electronics and mechanical shop practices, 4 in maintenance management, and 2 in electronics laboratory (1/80).

MOS-24M-003

VULCAN SYSTEM MECHANIC

24M10
24M20
24M30
24M40

Exhibit Dates: 6/91–Present

Career Management Field: 23 (Air Defense Systems Mechanic)

Description

Summary: Supervises or performs maintenance on the Vulcan weapons system and associated equipment. *Skill Level 10:* Isolates malfunctions in analog and digital radar, computer, and servo systems to the module and component level; performs maintenance and repair on RF mechanical components, identifies and recommends changes to operations manuals and procedures; maintains, troubleshoots, and repairs servomechanism systems. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance in operator maintenance training. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises subordinates; assigns duties; maintains forms and records to insure proper maintenance procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 30; establishes maintenance procedures; conducts technical inspections; coordinates maintenance activities; supervises the requisitioning and stocking of supplies and repair parts.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory. In the upper-division baccalaureate category, 3 semester hours in mechanical systems troubleshooting. (NOTE: This recommendation for skill level 10 is valid for the dates 6/91–9/91 only) (6/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 3 in personnel supervision, 2 in records and information management, and 2 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in mechanical systems troubleshooting and 3 in electronic systems troubleshooting. (NOTE: This recommendation for skill level 20 is valid for the dates 6/91–2/95 only) (6/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 3 in personnel supervision, 2 in records and information management, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in mechanical systems troubleshooting and 3 in electronic systems troubleshooting (6/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 3 in personnel supervision, 2 in records and information management, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in mechanical systems troubleshooting, 3 in electronic systems troubleshooting, 3 in organizational management, and 3 for field experience in management (6/91).

MOS-24N-002

CHAPARRAL SYSTEM MECHANIC
24N10
24N20
24N30
24N40

Exhibit Dates: 1/90–5/91.

Career Management Field: 27 (Ballistic/L and Combat Missile and Light Air Defense Weapons Systems Maintenance), subfield 272 (Light Air Defense Systems Maintenance)

Description

Summary: Supervises or performs maintenance on Chaparral weapon system and associated equipment. *Skill Level 10:* Performs routine maintenance on Chaparral weapon system and target display sets; maintains mechanical, electrical, hydraulic, pneumatic, and some electronic systems associated with the Chaparral launch equipment; uses meters and specialized test sets to localize malfunctions to the black box level. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical assistance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises subordinates; assigns duties; maintains forms and records to insure proper maintenance procedures for all Chaparral systems. *Skill Level 40:* Able to perform the duties required for Skill Level 30; establishes maintenance procedures; conducts technical inspections of Chaparral systems; coordinates maintenance activities.

Recommendation, Skill Level 10

In the vocational certificate category, 2 semester hours in mechanical laboratory (1/80).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in mechanical laboratory (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in mechanical laboratory. In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel supervision, 3 in mechanical shop practices, and 2 in maintenance management (1/80).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in mechanical laboratory. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in mechanical shop practices, and 4 in maintenance management (1/80).

MOS-24N-003

CHAPARRAL SYSTEM MECHANIC
24N10
24N20
24N30
24N40

Exhibit Dates: 6/91–Present.

Career Management Field: 23 (Air Defense System Maintenance).

Description

Summary: Supervises or performs maintenance on Chaparral weapon system and associated equipment. *Skill Level 10:* Performs routine maintenance on Chaparral weapon system and target display sets; maintains mechanical, electrical, hydraulic, pneumatic, and some electronic systems associated with Chaparral launch equipment; uses meters and specialized test sets to localize malfunctions to the black box level. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical assistance to subordinates; assists in maintaining equipment records and repair lists; performs advanced troubleshooting, using sys-

tems theory and schematic interpretation, supervises maintenance procedures. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises subordinate personnel, assigns duties, maintains forms and records to insure proper maintenance procedures for Chaparral systems. *Skill Level 40:* Able to perform the duties required for Skill Level 30; establishes maintenance procedures; conducts technical inspections of Chaparral systems and coordinates maintenance activities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical shop practices. (NOTE: This recommendation for skill level 10 is valid for the dates 6/91–9/91 only) (6/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical shop practices, 3 in basic electronics laboratory, 3 in personnel supervision, 2 in records and information management, and 2 in maintenance management. (NOTE: This recommendation for skill level 20 is valid for the dates 6/91–2/95 only) (6/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical shop practices, 3 in basic electronics laboratory, 3 in personnel supervision, 2 in records and information management, and 3 in maintenance management (6/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical shop practices, 3 in basic electronics laboratory, 3 in personnel supervision, 2 in records and information management, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (6/91).

MOS-24R-001

HAWK MASTER MECHANIC
24R40
24R50

Exhibit Dates: 1/90–5/91.

Career Management Field: 23 (Air Defense Missile Maintenance).

Description

Summary: Supervises or performs maintenance on improved Hawk equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30 of MOS 24E, Hawk (Improved Hawk) Fire Control Mechanic; MOS 24G, Hawk (Improved Hawk) Information Coordination Central Mechanic; and MOS 24C, Hawk Firing Section Mechanic; supervises and coordinates the maintenance of improved Hawk information coordination central, automatic data equipment, improved continuous wave acquisition radar, identification-friend-or-foe, battery terminal equipment, battery control central, pulse acquisition radar, range-only radar, and associated tools and test equipment; prepares maintenance forms and supply records; diagnoses and determines causes of malfunctions; reads, interprets, and explains complex circuit diagrams and schematics; provides technical advice and assistance. NOTE: May have progressed to 24R40 from 24E30 (Hawk

(Improved Hawk) Fire Control Mechanic) or 24G30 (Hawk (Improved Hawk) Information Coordination Central Mechanic). *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises and coordinates maintenance on improved Hawk high-powered illuminator radar, missile launching section control box, launcher, mechanical, hydraulic, and electrical systems, and loader-transporter; serves as senior mechanic; establishes, maintains, and monitors on-the-job training programs; provides technical guidance to other units.

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to management. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for field experience in management (12/84).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to management. In the upper-division baccalaureate category, 3 semester hours in personnel management, 6 for field experience in management, and 3 in management problems (12/84).

MOS-24R-002

HAWK MASTER MECHANIC
24R40
24R50

Exhibit Dates: 6/91–6/95. Effective 6/95, MOS 24R was discontinued.

Career Management Field: 23 (Air Defense System Maintenance).

Description

Summary: Supervises or performs maintenance on Hawk equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30 of MOS 24C, Hawk Firing Section Mechanic or MOS 24G, Hawk Information Coordination Central Mechanic; supervises and coordinates battery unit maintenance on Hawk high-powered illuminator radar, missile launching section control box, launcher, mechanical, hydraulic, and electrical systems, loader transporter, information and coordination control, continuous wave acquisition radar, and other tools and test equipment; diagnoses and determines cause of malfunctions; reads, interprets, and explains complex circuit diagrams and schematics; performs digital and computer fault isolation; performs fault isolation and maintenance procedures on continuous wave acquisition radar and the Hawk integrated system; enforces safety policies, procedures, and standards, as well as equipment standards of readiness; conducts training to support these standards. **NOTE:** May have progressed to 24R40 from 24C30, Hawk Firing Section Mechanic or 24G30, Hawk Information Coordination Central Mechanic. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises and performs unit level operational checks, fault isolation, and maintenance; serves as senior mechanic at battalion and brigade levels; advises battalion commander on unit maintenance program.

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in maintenance management, and 2 in records and information management. In

the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (6/91).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in organizational management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (6/91).

MOS-24T-002

PATRIOT OPERATOR AND SYSTEM MECHANIC

24T10
24T20
24T30
24T40
24T50

Exhibit Dates: 1/90–5/91.

Career Management Field: 23 (Air Defense Missile Maintenance).

Description

Summary: Supervises, operates, or performs maintenance on the Patriot air defense missile system. *Skill Level 10:* Performs repairs on the Patriot radar set; installs authorized equipment modifications; prepares appropriate supplies, communication equipment, computer and computer peripherals, tools, and test equipment; removes and replaces faulty circuit cards; operates maintenance vehicle. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; performs organizational maintenance on the Patriot radar set and assists in training operators in maintenance techniques; troubleshoots problems with external test equipment when isolation is not accomplished by built-in or other machine-aided equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as shift supervisor; provides supervision in training programs for operator and maintenance personnel; supervises preparation of technical forms and reports; requisitions and stocks supplies and repair parts. *Skill Level 40:* Able to perform the duties required for Skill Level 30; coordinates activities of maintenance personnel; supervises inspection of maintenance performance; supervises inspection teams; supervises repair parts stocking; establishes maintenance priorities. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as maintenance chief; assists in planning, organizing, and training operations; provides technical expertise; may serve as a member of a multinational evaluation team.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 3 in electronic systems troubleshooting, and 3 in digital circuits (12/84).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 3 in electronic systems troubleshooting, and 3 in digital circuits (12/84).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 3 in electronic systems troubleshooting, 3 in digital circuits, and 3 in personnel supervision (12/84).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 3 in electronic systems troubleshooting, 3 in digital circuits, 3 in personnel supervision, and 3 in introduction to management. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for field experience in management (12/84).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 3 in electronic systems troubleshooting, 3 in digital circuits, 3 in personnel supervision, and 3 in introduction to management. In the upper-division baccalaureate category, 3 semester hours in personnel management and 6 for field experience in management (12/84).

MOS-24T-003

PATRIOT OPERATOR AND SYSTEM MECHANIC

24T10
24T20
24T30
24T40
24T50

Exhibit Dates: 6/91–Present.

Career Management Field: 23 (Air Defense System Maintenance).

Description

Summary: Supervises, operates, or performs maintenance on the Patriot air defense missile system. *Skill Level 10:* Performs repairs on the Patriot system; installs equipment modifications; prepares appropriate supplies, communication equipment, computer and computer peripherals, tools, test equipment, and shelters; removes and replaces faulty circuit cards; operates the maintenance vehicle. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; performs checks, adjustments, and repairs on major item interface; performs unit maintenance on Patriot information and coordination control, engagement control station, radar set, identification-friend-or-foe, launching station, antiradiation missile decoy, and antenna mast group; supervises maintenance procedures; assists in training operators in maintenance techniques; troubleshoots problems with external test equipment when isolation is not accomplished by built-in or other machine-aided equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as shift supervisor while performing as chief engagement controller; provides supervision in training programs for operator and maintenance personnel; supervises preparation of technical forms and reports; requisitions and stocks supplies and repair parts; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 30; coordinates activities of maintenance personnel; supervises inspection of maintenance performance; supervises inspection teams; supervises repair parts stocking; establishes maintenance priorities.

Skill Level 50: Able to perform the duties required for Skill Level 40; serves as maintenance chief; assists in planning, organization, and training operations; provides technical expertise; may serve as a member of a multinational evaluation team; applies knowledge of capabilities and limitations of the Patriot weapon, command and control, and radar systems.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in basic electronics laboratory, and 3 in digital principles. (NOTE: This recommendation for skill level 10 is valid for the dates 6/91-9/91 only.) (6/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in basic electronics laboratory, 3 in digital principles, 3 in personnel supervision, 2 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in electronic systems troubleshooting and 3 in computer systems troubleshooting. (NOTE: This recommendation for skill level 20 is valid for the dates 6/91-2/95 only.) (6/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in basic electronics laboratory, 3 in digital principles, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in electronic systems troubleshooting and 3 in computer systems troubleshooting (6/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in basic electronics laboratory, 3 in digital principles, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in electronic systems troubleshooting, 3 in computer systems troubleshooting, 3 in organizational management, and 3 for field experience in management (6/91).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in basic electronics laboratory, 3 in digital principles, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in electronic systems troubleshooting, 3 in computer system troubleshooting, 3 in organizational management, and 6 for field experience in management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communications techniques for managers (6/91).

MOS-24U-002

NIKE-HERCULES CUSTODIAL MECHANIC

24U10

24U20

24U30

24U40

Exhibit Dates: 1/90-9/90. **Effective:** 9/90. MOS 24U was discontinued.

Career Management Field: 23 (Air Defense Missile Maintenance), subfield 232 (Nike Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on Hercules missiles, airframes, and launch devices. **Skill Level 10:** Assembles, installs, maintains, and adjusts certain mechanical assemblies relating to on missile guidance control; assembles and interconnects electronic missile components; localizes malfunctions and repairs authorized components using specialized test sets; initiates requisitions for repairs of mechanical and some electronic missile subsystems; checks calibration of test sets; makes adjustments; isolates malfunctions in test sets to component level and makes repairs. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises activities of subordinates; supervises the preparation of maintenance forms and reports; supervises training programs and requisitioning of parts for repairs; organizes and supervises maintenance and inspection teams. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises and coordinates all maintenance on the Hercules missiles, airframe, and launch devices; may serve as chief electronics mechanic at battalion or higher level.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in electric/electronic fundamentals, 3 in electronic maintenance, and 3 in electronic troubleshooting. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics fundamentals (1/80).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in electric/electronic fundamentals, 3 in electronic maintenance, and 3 in electronic troubleshooting. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics fundamentals (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in electric/electronic fundamentals, 3 in electronic maintenance, and 3 in electronic troubleshooting. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics fundamentals, 2 in maintenance management, 3 in personnel supervision, 3 in electronics shop practices, and 2 in records and reports preparation. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel management (1/80).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in electrical/electronic fundamentals, 3 in electronic maintenance, and 3 in electronic troubleshooting. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics fundamentals, 3 in maintenance management, 3 in personnel supervision, 3 in electronics shop practices, and 2 in records and reports preparation. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel man-

agement, 3 in introduction to management, and 3 in human relations (1/80).

MOS-25L-001

AN/TSQ 73 AIR DEFENSE ARTILLERY COMMAND AND CONTROL SYSTEM OPERATOR/

REPAIRER

25L10

25L20

25L30

25L40

Exhibit Dates: 1/90-5/91.

Career Management Field: 23 (Air Defense Missile Maintenance), subfield 237 (Fire Distribution Systems Repair).

Description

Summary: Supervises, operates, and performs maintenance on Air Defense Command and Control System AN/TSQ-73. **Skill Level 10:** Operates the command and control system which collects, evaluates, and distributes target data to air defense artillery fire units; operates general purpose target display systems and communication stations; monitors display status readouts to ensure correct target identification; although this skill level indicates primarily operator duties, maintenance skills are being developed; diagnostic procedures are, in general, limited to programmed diagnostic checks. **Skill Level 20:** Able to perform the duties required for Skill Level 10; performs full range of maintenance on display consoles, power supplies, communications equipment, general purpose computers, and peripheral devices; provides technical and operational assistance to subordinates; removes and replaces faulty assemblies and circuit cards. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides technical guidance to subordinates; able to detect and replace defective individual components; supervises on-the-job training and all operation/repair activities of subordinates. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises and inspects overall organizational maintenance of the air defense command and control system.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in applied mathematics. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in basic electricity, 3 in technical mathematics, and additional credit in electronics and digital computer operations on the basis of institutional evaluation (1/80).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in applied mathematics. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in basic electricity, 3 in technical mathematics, 3 in electronic test procedures, and additional credit in electronics and digital computer operations on the basis of institutional evaluation (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in applied mathematics and 3 in introduction to computers. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in basic electricity, 3 in technical mathematics, 3 in electronic test procedures, 3 in introduction

to computer science, 3 in electronics shop practices, 3 in personnel supervision, 2 in maintenance management, and additional credit in electronics and digital computer operations on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel supervision (1/80).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in applied mathematics and 3 in introduction to computers. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in basic electricity, 3 in technical mathematics, 3 in electronic test procedures, 3 in introduction to computer science, 3 in electronics shop practices, 3 in personnel supervision, 3 in maintenance management, and additional credit in electronics and digital computer operations on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours for field experience in personnel supervision, 3 in introduction to management, and 3 in human relations (1/80).

MOS-25L-002

AN/TSQ 73 AIR DEFENSE ARTILLERY COMMAND AND CONTROL SYSTEM OPERATOR/ MAINTAINER

(AN/TSQ 73 Air Defense Artillery Command and Control System Operator/ Repairer)

25L10

25L20

25L30

25L40

Exhibit Dates: 6/91–Present.

Career Management Field: 23 (Air Defense System Maintenance).

Description

Summary: Supervises, operates, and performs maintenance on Air Defense Command and Control System AN/TSQ-73 for the Hawk Missile. **Skill Level 10:** Operates the command and control system which collects, evaluates, and distributes target data to air defense artillery fire units; operates general purpose target display systems and communication stations; monitors display status readouts to ensure correct target identification; although this skill level indicates primarily operator duties, maintenance skills are being developed; diagnostic procedures are, in general, limited to programmed diagnostic checks. **Skill Level 20:** Able to perform the duties required for Skill Level 10; performs full range of maintenance on display consoles, power supplies, communications equipment, general purpose computers, and peripheral devices; provides technical and operational assistance to subordinates; supervises maintenance; removes and replaces faulty assemblies and circuit cards. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides technical guidance to subordinates; able to detect and replace defective individual components; supervises on-the-job training and all operation/repair activities of subordinates. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises and inspects overall organizational maintenance of the air defense command and control system.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory. (NOTE: This recommendation for skill level 10 is valid for the dates 6/91-9/91 only) (6/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 3 in personnel supervision, 2 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in electronic systems troubleshooting and 3 in computer systems troubleshooting. (NOTE: This recommendation for skill level 20 is valid for the dates 6/91-2/95 only) (6/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 3 in personnel supervision, 3 in maintenance management, and 3 in records and information management. In the upper-division baccalaureate category, 3 semester hours in electronic systems troubleshooting and 3 in computer systems troubleshooting (6/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 3 in personnel supervision, 3 in maintenance management, and 3 in records and information management. In the upper-division baccalaureate category, 3 semester hours in electronic systems troubleshooting, 3 in computer systems troubleshooting, 3 in organizational management, and 3 for field experience in management (6/91).

MOS-25M-001

MULTIMEDIA ILLUSTRATOR

25M10

25M20

25M30

Exhibit Dates: Pending Evaluation. 2/94–Present.

MOS-25P-001

VISUAL INFORMATION/AUDIO DOCUMENTATION

SYSTEMS SPECIALIST

25P10

25P20

25P30

Exhibit Dates: 1/90–6/94. Effective 6/94, MOS 25P was discontinued and its duties were incorporated into MOS 25V, Combat Documentation/Production Specialist.

Career Management Field: 25 (Visual Information).

Description

Summary: Serves as producer in the preparation and production of live and recorded television or motion pictures; operates and performs operator maintenance on television, video, audio, and motion picture equipment. **Skill Level 10:** Is responsible for preproduction planning, preparation, and collection of production material, including site selection, lighting, camera placement, camera operation, and sound/audio setup and operation; maintains equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; assists in writing and producing productions; is responsible for post-

production, including reviewing and editing footage and use of special effect devices; assists in set construction; performs maintenance on equipment. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises production team in all aspects; reviews collected material to evaluate quality; prepares scripts and supervises preproduction preparation, including set, scenery, graphics, and special effects; produces television, motion picture, and sound/audio productions.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in set design/lighting, 2 in basic television studio techniques (multicamera), 2 in basic video remote techniques (single camera), and 2 in basic audio techniques; if experience included working with motion pictures, 2 in basic cinematography. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (11/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in set design/lighting, 3 in basic television studio techniques (multicamera), 3 in basic video remote techniques (single camera), 3 in basic audio techniques, 3 in basic postproduction processes, and 3 in personnel supervision; if experience included working with motion pictures, 3 in basic cinematography (11/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in set design/lighting, 3 in basic television studio techniques (multicamera), 3 in basic video remote techniques (single camera), 3 in basic audio techniques, 4 in basic postproduction processes, and 3 in personnel supervision; if experience included working with motion pictures, 3 in basic cinematography. In the upper-division baccalaureate category, 3 semester hours for field experience in media production, 2 in television/video production, and 1 in television/video writing (11/91).

MOS-25Q-001

GRAPHICS DOCUMENTATION SPECIALIST

25Q10

25Q20

25Q30

Exhibit Dates: 1/90–6/94. Effective 6/94, MOS 25Q was discontinued and its duties were incorporated into MOS 25M, Multimedia Illustrator.

Career Management Field: 25 (Visual Information).

Description

Summary: Performs or supervises the design and production of graphic communication for briefings, posters, and training materials; illustrations may be used in a variety of media formats including prints, slides, overhead transparencies, video, and computer CRT display; includes creative problem solving in visualizing concrete and abstract concepts for effective communication. **Skill Level 10:** Serves as designer; solves visual communication problems with traditional drawing and graphic art techniques and computer graphics software; proficient in the selection and use of oil paints, watercolors, inks, charcoal pencils, and crayons; prepares graphs, charts, overlays, lettering,

and illustrations for print, audiovisual, and electronic presentations used for command briefings, training lessons, signs, information posters, manuals, operation plans, and overlays; prepares mechanical drawing equipment and mounts photographs for static display and copy illustration; knowledgeable in layout design, color, selection, photo retouching, and the visualization process; executes freehand drawing of figures, faces, scenes, vehicles, and weapons; maintains illustration equipment and graphics workstation. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides guidance, critique, and technical assistance to beginning graphics specialist; has greater proficiency in visual problem solving, work planning and assignment, and scheduling. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises other graphics personnel; conducts evaluation of graphics production; analyzes requirements in terms of illustration needs and scheduling; makes oral and written recommendations for use of graphics; maintains supplies; conducts maintenance inspections; recommends equipment and software purchases.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in graphic design applications, 2 in lettering and calligraphy, 2 in mechanical drawing, and 2 in audiovisual presentations. In the upper-division baccalaureate category, 2 semester hours in principles of typography, 2 in computer graphics, and 1 in visual communication problem solving. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (11/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in graphic design applications, 2 in lettering and calligraphy, 2 in mechanical drawing, and 3 in audiovisual presentations. In the upper-division baccalaureate category, 3 semester hours in principles of typography, 2 in computer graphics, and 2 in visual communication problem solving (11/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in graphic design applications, 2 in lettering and calligraphy, 2 in mechanical drawing, and 3 in audiovisual presentations. In the upper-division baccalaureate category, 3 semester hours in principles of typography, 3 in computer graphics, and 3 in visual communication problem solving (11/91).

MOS-25R-001

VISUAL INFORMATION/AUDIO EQUIPMENT REPAIRER
25R10
25R20
25R30

Exhibit Dates: 1/90-Present.

Career Management Field: 25 (Visual Information).

Description

Summary: Installs and maintains audio and visual equipment and assists in the use and operation of video cameras, recorders, television receivers and transmitters, and audio transmitters. *Skill Level 10:* Installs, repairs, and provides necessary assistance in operation of

audiovisual cameras, recorders, mixer equipment, and television and audio transmitters of various power levels; repairs and maintains all equipment utilized in an audio and television installation. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and assists subordinates in difficult repair and installation situations; counsels subordinates; prepares requisitions for supplies; keeps repair logs. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises all subordinates; establishes training sessions; plans and coordinates installation, operation, and repair with superiors.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic troubleshooting procedures, 2 in television camera repair, 2 in television transmitter repair, 2 in audio transmitter repair, and 2 in video recording procedures. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (11/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic troubleshooting procedures, 2 in television camera repair, 2 in television transmitter repair, 2 in audio transmitter repair, 2 in video recording procedures, 3 in personnel supervision, 1 in maintenance management, and 1 in records and information management. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (11/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic troubleshooting procedures, 2 in television camera repair, 2 in television transmitter repair, 2 in audio transmitter repair, 2 in video recording procedures, 3 in personnel supervision, 2 in maintenance management, and 1 in records and information management (11/91).

MOS-25S-001

STILL DOCUMENTATION SPECIALIST
25S10
25S20
25S30

Exhibit Dates: 1/90-6/94. Effective 6/94, MOS 25S was discontinued and its duties were incorporated into MOS 25V, Combat Documentation/Production Specialist.

Career Management Field: 25 (Visual Information).

Description

Summary: Participates in still visual information activities including ground and aerial photographs; performs photographic lab processing services in black and white, color prints and color slides; performs some preventive maintenance on equipment. *Skill Level 10:* Uses photo flood lamps, electronic flash, light meters, and larger format cameras; shoots portraits, picture stories, and other photo assignments. *Skill Level 20:* Able to perform the duties required for Skill Level 10; evaluates photos; maintains photo library; provides guidance for photo shoots and laboratory procedures; monitors and inspects laboratory procedures. *Skill Level 30:* Able to perform the duties required for Skill Level 20; coordinates photo team coverage; establishes quality con-

trol; maintains photo supplies and inventory; ensures that all equipment is in operating order.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in still photography, 3 in black and white darkroom processing, and 3 in color darkroom processing. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (11/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in still photography, 4 in black and white darkroom processing, 4 in color darkroom processing, and 3 in personnel supervision (11/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 5 semester hours in still photography, 4 in black and white darkroom processing, 4 in color darkroom processing, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in media production (11/91).

MOS-25V-001

COMBAT DOCUMENTATION/PRODUCTION SPECIALIST
25V10
25V20
25V30

Exhibit Dates: Pending Evaluation. 2/94-Present.

MOS-25Z-001

AUDIO-VISUAL CHIEF
25Z40
25Z50

Exhibit Dates: 1/90-1/94.

Career Management Field: 25 (Visual Information).

Description

Summary: Supervises subordinates performing visual information duties and manages all documentation operations of an Army post or major unit; duties include requirements analysis and definition, planning, execution, and evaluation of visual information support, personnel supervision and training, equipment and facilities maintenance, and requisition of materials and supplies. *Skill Level 40:* Manages photographic facility operations, radio and television operations, and visual information documentation teams; provides personnel supervision, training, and guidance; oversees equipment repair and maintenance; schedules studio operations and mobile van and remote site operations; manages radio and television microwave, broadcast, and cable transmission system operations; plans and coordinates visual information operations, including determination of present and future personnel and equipment requirements for documentation teams and television and radio production; schedules and directs operations and evaluates performance in coordination with unit or agency being supported. *Skill Level 50:* Able to perform the duties required for Skill Level 40; performs administrative tasks including personnel assignment, discipline, and career progression; assists command and staff offices in determining appropriate visual information uses and documentation needs; maintains quality assurance of all visual information and documentation performance.

Recommendation, Skill Level 40

In the upper-division baccalaureate category, 3 semester hours in personnel administration, 3 in organizational management, 3 in organizational planning, 3 in human resource management, and 3 for field experience in management (11/91).

Recommendation, Skill Level 50

In the upper-division baccalaureate category, 3 semester hours in personnel administration, 3 in organizational management, 3 in organizational planning, 3 in human resource management, and 6 for field experience in management (11/91).

MOS-25Z-002

VISUAL INFORMATION CHIEF
25Z50

Exhibit Dates: Pending Evaluation. 2/94–Present.

MOS-26H-002

AIR DEFENSE RADAR REPAIRER
26H10
26H20
26H30

Exhibit Dates: 1/90–3/90. Effective 3/90, MOS 26H was discontinued.

Career Management Field: 23 (Air Defense Missile Maintenance), subfield 231 (Nike Missile System Repair).

Description

Summary: Supervises or performs maintenance and repairs on air defense radars and associated equipment, including height, azimuth, and distance-finding radars, servo, data transmission systems, and computers. *Skill Level 10:* Performs highly complex repairs on solid state, integrated circuit, vacuum tube radar, and associated equipment; provides repair support and advice for various radar maintenance groups; uses advanced as well as basic electronics and schematic tracing to troubleshoot systems and subassemblies down to the component level; performs certain mathematical calculations during routine calibration or alignment procedures; uses common and advanced industrial test equipment as well as specialized test sets to diagnose system and subassembly failures; uses common and specialized test sets to diagnose system and subassembly failures; uses common and specialized hand tools to perform repair, adjustment, or modification on radar or associated equipment; may train maintenance and operator personnel on the proper handling or maintenance of specified radar equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; updates knowledge of advanced modifications being performed on existing radar equipment through on-the-job training or by attending workshops. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises subordinates; assigns duties; manages maintenance schedules, inspections, and quality control; supervises inspection and maintenance teams; conducts on-the-job training; keeps maintenance records.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in basic electronics, 3 in electronic control devices, 2 in technical mathematics,

and 1 in electronic instruments. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics, 3 in radar/microwave technology, and 1 in digital circuitry. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non—engineering) and 3 in a radar/microwave technical elective (1/80).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electronics, 3 in electronic control devices, 3 in digital circuitry, 2 in technical mathematics, and 3 in electronic instruments. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics, 3 in radar/microwave technology, 1 in digital circuitry, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non—engineering), and 3 in a radar/microwave technical elective (1/80).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic electronics, 3 in electronic control devices, 3 in digital circuitry, 2 in technical mathematics, and 3 in electronic instruments. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics, 3 in radar/microwave technology, 1 in digital circuitry, 3 in personnel supervision, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in an electronics technical elective (non—engineering), 3 in a radar/microwave technical elective, and 3 for field experience in personnel supervision (1/80).

MOS-27B-002

LAND COMBAT SUPPORT SYSTEM TEST SPECIALIST/
LANCE REPAIRER
27B10
27B20
27B30
27B40

Exhibit Dates: 1/90–9/91.

Career Management Field: 27 (Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance), subfield 271 (Ballistic/Land Combat Systems Maintenance).

Description

Summary: Maintains Land Combat Systems (LCSS) and the Lance missile system; inspects and tests equipment; locates card-level faults with special test equipment; replaces faulty assemblies and subassemblies; selects program tapes, patchboards and cable assemblies; adjusts and aligns mechanical, electrical, and optical assemblies; calibrates and repairs support equipment; performs quality control measures; prepares maintenance and supply forms and reports. *Skill Level 10:* Works under close supervision in performing maintenance functions; uses technical manuals; follows schematics and organized maintenance procedures; uses multimeters, oscilloscopes, signal generators, and power supplies; tests digital multimeters, waveform connectors, signal generators, pulse generators, power supplies, printers, and detector adapters; performs operator maintenance on AC power generators and replaces faulty components. *Skill Level 20:* Able to perform the

duties required for Skill Level 10; supervises and provides technical assistance to subordinates; repairs multimeters, waveform connectors, pulse generators, power supplies, signal generators, and patchboards; performs modifications on support equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance to subordinates; schedules work; sets repair priorities; inspects, tests, and repairs missile system components; demonstrates proper work practices and maintenance techniques; implements quality control measures; performs system inspections; supervises maintenance and inspection teams; may supervise a minimum of five persons. *Skill Level 40:* Able to perform the duties required for Skill Level 30; able to supervise personnel performing the duties of MOS 27B, MOS 27E (TOW/Dragon Repairer), and MOS 27H (Shillelagh Repairer); supervises and coordinates support maintenance activities of system-associated electronic equipment; assists in developing quality control measures; serves as section chief performing missile system support maintenance; serves as senior instructor in a training facility. **NOTE:** May have progressed to 27B40 from 27B30, 27E30 (TOW/Dragon Repairer), or 27H30 (Shillelagh Repairer).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in an electronics technician program. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electricity and electronics (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in an electronics technician program. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electricity and electronics, 2 in electronic instrumentation, and 2 in digital computer principles (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in an electronics technician program. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electricity and electronics, 2 in electronic instrumentation, 2 in digital computer principles, and 1 in personnel supervision; if the duty assignment was Lance Repair Supervisor or LCSS Repair Supervisor, 1 additional semester hour in personnel supervision and credit in human relations on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in an electronics technician program. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electricity and electronics, 3 in personnel supervision, 3 in human relations, 2 in electronic instrumentation, and 2 in digital computer principles (5/78).

MOS-27B-003

LAND COMBAT SUPPORT SYSTEM TEST SPECIALIST
27B10
27B20
27B30
27B40

Exhibit Dates: 10/91–6/95. Effective 6/95, MOS 27B was discontinued, and its duties were

incorporated into MOS 35B, 27E, 27M, and 35Y.

Career Management Field: 27 (Land Combat and Air Defense System Direct and General Support Maintenance).

Description

Summary: Maintains Land Combat Systems (LCSS) and the Lance Missile System; inspects and tests equipment; locates card-level faults with special test equipment; replaces faulty assemblies and subassemblies; selects program tapes, patchboards and cable assemblies; adjusts and aligns mechanical, electrical, and optical assemblies; calibrates and repairs support equipment; performs quality control measures; prepares maintenance and supply forms and reports. **Skill Level 10:** Works under close supervision in performing maintenance functions; uses technical manuals and troubleshooting trees; follows schematics and organized maintenance procedures; uses digital voltmeters, oscilloscopes, signal generators, and power supplies; tests waveform converter, computerized test set, computerized signal generators, pulse generators, power supplies, printers, and detector adapters; performs maintenance on AC power generators and replaces faulty components. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises and provides technical assistance to subordinates; repairs multimeters, waveform generator, pulse generators, power supplies, signal generators, and patchboards; performs minor modifications on support equipment. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides technical guidance to subordinates; schedules work; sets repair priorities; inspects, tests, and repairs missile system assemblies; demonstrates proper work practices and maintenance techniques; implements quality control measures; performs system inspections; supervises maintenance and inspection teams; may supervise a minimum of five persons. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises persons performing the duties of MOS 27B, MOS 27E (TOW/Dragon Repairer), MOS 27L (Lance System Repairer), and MOS 27M (Multiple Launcher Rocket System Repairer); supervises and coordinates support maintenance activities of system-associated electronic equipment; assists in developing quality control measures; serves as section chief performing missile system support maintenance; may serve as senior instructor in a training facility. **NOTE:** May have progressed to 27B40 from 27B30, 27E30 (TOW/Dragon Repairer), 27L30 (Lance System Repairer), or 27M30 (Multiple Launcher Rocket System Repairer).

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and maintenance, 3 in computer systems troubleshooting and maintenance, 3 in computer literacy, and 3 in personnel supervision. (**NOTE:** This recommendation for skill level 20 is valid for the dates 10/91-2/95 only) (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic elec-

tronics, 4 in electronic systems troubleshooting and maintenance, 3 in computer systems troubleshooting and maintenance, 3 in computer literacy, 3 in personnel supervision, 2 in records and information management, and 3 in maintenance management (9/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and maintenance, 3 in computer systems troubleshooting and maintenance, 3 in computer literacy, 3 in personnel supervision, 2 in records and information management, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (9/91).

MOS-27E-002

TOW/Dragon Repairer

27E10

27E20

27E30

Exhibit Dates: 1/90-9/91.

Career Management Field: 27 (Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance), subfield 271 (Ballistics/Land Combat Systems Maintenance).

Description

Summary: Performs maintenance on TOW and Dragon missile system trainers, night sights, battery chargers, and system test equipment. **Skill Level 10:** Performs maintenance tasks under close supervision; follows technical manuals in servicing and maintaining systems; inspects, tests, and adjusts components to specified tolerances using special test equipment; locates and replaces malfunctioning electronic, electrical, mechanical, pneumatic and electromechanical subassemblies, modules, and circuit elements; prepares maintenance and supply forms and reports. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; provides technical assistance to support units; installs equipment modifications; troubleshoots weapon system, launch effects trainer, TOW training set, and breakout box; performs operational checks on tracker test set, tracker and launch effects trainer, and monitoring set. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises subordinates; supervises inspection and maintenance teams; establishes work loads and priorities; conducts in-service staff training; demonstrates proper maintenance and troubleshooting techniques; recommends maintenance procedures; implements quality control measures; establishes and maintains maintenance records; performs inspections; may supervise up to five persons.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment (5/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment, and 3 in introduction to electricity and electronics (5/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in use and

care of tools and test equipment, 3 in introduction to electricity and electronics, and 1 in personnel supervision, if the duty position was TOW/Dragon Repair foreman, 1 additional semester hour in personnel supervision and credit in human relations on the basis of institutional evaluation (5/78).

MOS-27E-003

LAND COMBAT ELECTRONIC MISSILE SYSTEM

REPAIRER

(TOW/Dragon Missile Electronics Repairer)

(TOW/Dragon Repairer)

27E10

27E20

27E30

Exhibit Dates: 10/91-12/94.

Career Management Field: 27 (Land Combat and Air Defense System Direct and General Support Maintenance).

Description

Summary: Performs direct and general support maintenance on TOW and Dragon missile systems, trainers, night sights, battery chargers, and system test equipment. **Skill Level 10:** Performs maintenance tasks under close supervision; follows technical manuals in servicing and maintaining systems; inspects, tests, and adjusts components to specified tolerances using special test equipment and computerized test consoles; locates and replaces malfunctioning electronic, electrical, mechanical, optical, pneumatic and electromechanical subassemblies, modules, and circuit elements; determines serviceability and disposition of defective assemblies, subassemblies, and parts; prepares maintenance and supply forms and reports. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; provides technical assistance to support units; installs equipment modifications; troubleshoots weapon system, launch effects trainer, TOW training set, tracker and launcher effect trainer and monitoring set. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises subordinates; supervises inspection and maintenance teams; establishes work loads and priorities; conducts in-service staff training; demonstrates proper maintenance and troubleshooting techniques; recommends maintenance procedures; implements quality control measures; establishes and maintains maintenance records; performs inspections; may supervise up to eight persons.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and maintenance, 3 in computer literacy, 3 in digital principles, 3 in solid state electronics, and 3 in personnel supervision (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and maintenance, 3 in computer literacy, 3 in digital principles, 3 in solid state electronics, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (9/91).

MOS-27E-004

LAND COMBAT ELECTRONIC MISSILE SYSTEM
REPAIR
27E10
27E20
27E30
27E40

Exhibit Dates: Pending Evaluation. 1/95–Present.

MOS-27F-002

VULCAN REPAIRER
27F10
27F20
27F30

Exhibit Dates: 1/90–9/91.

Career Management Field: 27 (Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance), subfield 272 (Light Air Defense Systems Maintenance).

Description

Summary: Performs maintenance on Vulcan electronic assemblies, range-only radar, and associated equipment. *Skill Level 10:* Works under close supervision, inspects, tests, and adjusts components to specific tolerances; determines malfunctions in assemblies, subassemblies, modules, and circuit elements with common and specialized test equipment; removes and replaces defective components and parts; tests transmitters/receivers, antennas, range computers, power supplies, amplifiers, control and electronic field test sets; calibrates power supplies, modular testers, receiver test sets, and other components unique to Vulcan electronic assemblies. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical assistance to subordinates; installs system modifications; provides technical assistance to support units. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and performs maintenance tasks; establishes work loads and priorities; establishes and conducts staff training; implements quality control measures; supervises inspection and maintenance teams; maintains records; recommends inspection, testing, and maintenance techniques; may supervise up to five persons.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment (5/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment and 3 in basic electronics (5/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment, 3 in basic electronics, and 1 in personnel supervision; if the duty position was Vulcan Repair Supervisor, 1 additional semester hour in personnel supervision, and credit in human relations on the basis of institutional evaluation (5/78).

MOS-27F-003

VULCAN REPAIRER
27F10
27F20
27F30

Exhibit Dates: 10/91–12/95. Effective 12/95, MOS 27F was discontinued.

Career Management Field: 27 (Land Combat and Air Defense System Direct and General Support Maintenance).

Description

Summary: Performs direct and general support maintenance on Vulcan electronic assemblies, Vulcan cannon and feed system, towed Vulcan carriage, range-only radar, and associated equipment. *Skill Level 10:* Works under close supervision; inspects, tests, and adjusts components to specified tolerances; determines malfunctions in assemblies, subassemblies, modules, and circuit elements with common and specialized test equipment; removes and replaces defective components and parts; inspects, tests, and adjusts Vulcan system components and parts using automatic test equipment; performs initial, work-in-process, on-site technical, and quality control inspections. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical assistance to subordinates; installs system modifications; provides technical assistance to support units; completes maintenance and supply forms; calibrates radar and antenna test sets; installs equipment modifications. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and performs maintenance tasks; establishes work loads and priorities; establishes and conducts staff training; implements quality control measures; supervises inspection, testing, and maintenance techniques; may supervise up to ten persons.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and maintenance, 3 in computer literacy, 3 in radar systems, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 10/91-2/95 only) (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and maintenance, 3 in computer literacy, 3 in radar systems, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (9/91).

MOS-27G-002

CHAPARRAL/REDEYE REPAIRER
27G10
27G20
27G30
27G40

Exhibit Dates: 1/90–9/91.

Career Management Field: 27 (Ballistic/Land Combat Missile and Light Air Defense Weapon Systems Maintenance), subfield 272 (Light Air Defense Systems Maintenance).

Description

Summary: Performs maintenance on the Chaparral and Redeye missiles systems, associated equipment, and trainers. *Skill Level 10:* Inspects, tests, and adjusts components to specific tolerances; determines malfunctions; uses system-associated test equipment; removes and replaces defective components and parts; serves on maintenance and inspection teams; prepares maintenance and supply forms and reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; installs equipment modifications; provides technical assistance to supported units. *Skill Level 30:* Able to perform the duties required for Skill Level 20; establishes work load and repair priorities; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; demonstrates proper maintenance and troubleshooting techniques; implements quality control measures; establishes and maintains maintenance records; may supervise up to five persons. *Skill Level 40:* Able to perform the duties required for Skill Level 30 of MOS 27G or 27F (Vulcan Repairer); supervises and coordinates support maintenance of the Chaparral and Redeye missile systems, Vulcan weapon system electronics, forward area alerting radar, system-associated trainers and test equipment, and power generation equipment; calibrates system-associated electronic equipment; supervises the quality control program and assists in its development. NOTE: May have progressed to 27G40 from 27G30 or 27F30 (Vulcan Repairer).

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in the use and care of tools and test equipment and credit in basic electronics on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in the use and care of tools and test equipment and credit in basic electronics on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment, 1 semester hour in personnel supervision, and credit in basic electronics on the basis of institutional evaluation; if the duty position was Chaparral/Redeye Missile Systems Repair Supervisor, 1 additional semester hour in personnel supervision and credit in human relations on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools and test equipment, 3 in personnel supervision, 3 in human relations, and credit in basic electronics on the basis of institutional evaluation (5/78).

MOS-27G-003

CHAPARRAL/REDEYE REPAIRER
27G10
27G20
27G30
27G40

Exhibit Dates: 10/91–Present.

Career Management Field: 27 (Land Combat and Air Defense System Direct and General Support Maintenance).

Description

Summary: Performs maintenance on the Chaparral and Redeye missile systems, associated equipment, and trainers. *Skill Level 10:* Inspects, tests, and adjusts components to specific tolerances; determines malfunctions in electronic, electrical, and cryogenic assemblies using specialized test equipment; removes and replaces defective components and parts; performs repair and maintenance on hydraulic, pneumatic, and high pressure systems; prepares maintenance and supply forms and reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; installs equipment modifications; provides technical assistance to support units. *Skill Level 30:* Able to perform the duties required for Skill Level 20; establishes work load and repair priorities; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; demonstrates proper maintenance and troubleshooting techniques; implements quality control measures; establishes and maintains maintenance records; may supervise up to ten persons. *Skill Level 40:* Able to perform the duties required for Skill Level 30 of MOS 27G, 27F (Vulcan Repairer), or 27N (Forward Area Alerting Radar Repairer); supervises and coordinates support maintenance of the Chaparral and Redeye missile systems, Vulcan weapon system electronics, forward area alerting radar, system-associated trainers and test equipment, and power generation equipment; calibrates system-associated electronic equipment; supervises the quality control program and assists in its development. NOTE: May have progressed to 27G40 from 27G30, 27F30 (Vulcan Repairer), or 27N30 (Forward Area Alerting Radar Repairer).

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and maintenance, 3 in computer literacy, 3 in solid state electronics, 3 in hydraulics and pneumatics, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 10/91-2/95 only) (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and maintenance, 3 in computer literacy, 3 in solid state electronics, 3 in hydraulics and pneumatics, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (9/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and maintenance, 3 in computer literacy, 3 in solid state electronics, 3 in hydraulics and pneumatics, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in

organizational management and 3 in management problems (9/91).

MOS-27H-003

HAWK FIRING SECTION REPAIRER

27H10

27H20

27H30

27H40

Exhibit Dates: 1/90–Present.

Career Management Field: 27 (Land Combat and Air Defense System Direct and General Support Maintenance).

Description

Summary: Supervises or performs maintenance on the electrical, hydraulic, hydropneumatic, mechanical, and electromechanical portions of the improved Hawk system and the electronic systems of Hawk or improved Hawk launcher. *Skill Level 10:* Inspects, tests, and adjusts equipment to specific tolerances; determines deficiencies in electronic, electrical, hydraulic, hydropneumatic, mechanical, and electromechanical assemblies, subassemblies, and circuits with common and specialized test equipment including computer-based automatic test equipment; performs required maintenance; repairs unserviceable items by removing and replacing defective components and parts and determines their disposition; performs quality control measures; performs load testing, calibration, and repair of tools and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; installs electrical, hydraulic, hydropneumatic, mechanical, and electromechanical equipment modifications; provides technical assistance to supported units; completes maintenance and supply forms. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises subordinates in the maintenance of the improved Hawk missile and launching systems; establishes work loads and repair priorities; recommends procedures for receiving, storing, inspecting, testing, and repairing items; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; establishes and keeps records; prepares maintenance reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and coordinates maintenance of Hawk or improved Hawk system, including launcher, radar, battery control, information coordination, simulator station, test equipment, and associated training equipment; serves as a section chief or principal noncommissioned officer of a platoon performing missile system support maintenance; supervises and inspects activities of subordinates engaged in missile system maintenance; supervises quality assurance and assists in its development; advises superiors on technical and personnel matters; assists in planning and performing on-the-job training.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulic systems, 3 in electromechanical systems maintenance, 3 in basic electronics, 3 in servomechanism systems, and 3 in computer literacy. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulic systems, 3 in electromechanical systems maintenance, 3 in basic electronics, 3 in servomechanism systems, 3 in computer literacy, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulic systems, 3 in electromechanical systems maintenance, 3 in basic electronics, 3 in servomechanism systems, 3 in computer literacy, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (9/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulic systems, 3 in electromechanical systems maintenance, 3 in basic electronics, 3 in servomechanism systems, 3 in computer literacy, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (9/91).

MOS-27J-001

HAWK FIELD MAINTENANCE EQUIPMENT/PULSE

ACQUISITION RADAR REPAIRER

27J10

27J20

27J30

27J40

Exhibit Dates: 1/90–6/95. Effective 6/95, MOS 27J was discontinued and its duties were incorporated into MOS 27H.

Career Management Field: 27 (Land Combat and Air Defense System Direct and General Support Maintenance).

Description

Summary: Supervises or performs maintenance on Hawk or improved Hawk missile pulse radars and related equipment. *Skill Level 10:* Performs maintenance, calibration, and minor modifications on pulse-acquisition and pulse-ranging radars under direct supervision; inspects and calibrates electronic systems and subsystems using digital voltmeters, oscilloscopes, signal generators, and automatic computer-based test equipment; performs initial and final checkout and inspection for the electronic subsystems of the radar system. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; performs unsupervised maintenance on Hawk missile radar. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and provides technical assistance to subordinates; completes maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 30; establishes and controls work loads; establishes and keeps records; prepares maintenance reports; performs supervisory duties as section chief.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic systems troubleshooting and maintenance, 3 in computer systems trou-

bleshooting and maintenance, and 3 in computer literacy. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and maintenance, 3 in computer systems troubleshooting and maintenance, 3 in computer literacy, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and maintenance, 3 in computer systems troubleshooting and maintenance, 3 in computer literacy, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (9/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and maintenance, 3 in computer systems troubleshooting and maintenance, 3 in computer literacy, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (9/91).

MOS-27K-001

HAWK FIRE CONTROL/CONTINUOUS WAVE RADAR
REPAIRER
27K10
27K20
27K30
27K40

Exhibit Dates: 1/90-Present.

Career Management Field: 27 (Land Combat and Air Defense System Direct and General Support Maintenance).

Description

Summary: Supervises or performs maintenance on continuous wave radars, high-power illumination radars, radar signal processing and information display systems, and associated digital data processing computers and test equipment. **Skill Level 10:** Performs maintenance on continuous wave and pulse radar systems and associated power supplies; inspects, tests, and adjusts radar system circuits to the module level; performs maintenance on video display terminals; inspects, tests, adjusts video data monitors to the module and component level; performs maintenance on signal processing systems composed of linear and digital circuits and microprocessor-based data processing circuits; inspects, tests, adjusts, and repairs signal and data processing systems to the module level; diagnoses digital computer circuits using test programs and subroutines. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical assistance, guidance, and training to subordinates; installs modifications to radar, signal processing, and data processing systems; initiates requests for repair parts, tools, test equipment, and other supplies. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises subordi-

nates; establishes work loads and repair priorities; recommends procedures for receipt, storage, inspection, testing, and repair of items; implements quality control measures; performs initial and final checkout and inspection of designated items and their assemblies and subassemblies; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records; prepares maintenance reports. **Skill Level 40:** Able to perform the duties required for Skill Level 30; plans, organizes, and directs the activities of a maintenance section, including overall responsibility for manpower allocation, inventory control, training personnel, and records maintenance.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer systems and organization, 3 in computer systems troubleshooting and maintenance, 3 in radar systems, 3 in electronic systems troubleshooting and maintenance, and 3 in basic electronics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer systems and organization, 3 in computer systems troubleshooting and maintenance, 3 in radar systems, 3 in electronic systems troubleshooting and maintenance, 3 in basic electronics, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer systems and organization, 3 in computer systems troubleshooting and maintenance, 3 in radar systems, 3 in electronic systems troubleshooting and maintenance, 3 in basic electronics, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (9/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer systems and organization, 3 in computer systems troubleshooting and maintenance, 3 in radar systems, 3 in electronic systems troubleshooting and maintenance, 3 in basic electronics, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (9/91).

MOS-27L-001

LANCE SYSTEM REPAIRER
27L10
27L20
27L30

Exhibit Dates: 1/90-12/93. Effective 12/93, MOS 27L was discontinued.

Career Management Field: 27 (Land Combat and Air Defense System Intermediate Maintenance).

Description

Summary: Performs or supervises intermediate maintenance on the Lance missile system trainer, loader, transporter, and launcher. **Skill Level 10:** Inspects, tests, troubleshoots, and repairs electronic, electrical, hydraulic, mechanical, and electromechanical assemblies of the Lance system trainer, loader, transporter, and launcher and system test equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises field maintenance of Lance missile system. **Skill Level 30:** Able to perform the duties required for Skill Level 20; schedules work loads and establishes priorities; recommends procedures for receipt and storage of items; supervises inspection of items and on-the-job training; establishes and maintains maintenance records.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in care and use of hand tools and test equipment. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (4/86).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in care and use of hand tools and test equipment. In the lower-division baccalaureate/associate degree category, 3 semester hours in troubleshooting and diagnostic procedures in system analysis and maintenance (4/86).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in care and use of hand tools and test equipment. In the lower-division baccalaureate/associate degree category, 3 semester hours in troubleshooting and diagnostic procedures in system analysis and maintenance, and 2 in personnel supervision (4/86).

MOS-27M-001

MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)
REPAIRER
27M10
27M20
27M30

Exhibit Dates: 1/90-Present.

Career Management Field: 27 (Land Combat and Air Defense System Intermediate Maintenance).

Description

Summary: Supervises or performs intermediate maintenance on Multiple Launch Rocket System self-propelled launcher loader, launcher pad/container trainer, and test support group. **Skill Level 10:** Troubleshoots electrical, electronic, and mechanical assemblies, modules, and interconnecting cables of the self-propelled launcher loader module; isolates malfunctions; repairs and replaces chassis-mounted components; prepares and maintains equipment logs, modification and utilization records, and calibration charts. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical assistance to support units; supervises field maintenance of MLRS system. **Skill Level 30:** Able to perform the duties required for Skill Level 20; schedules work loads and establishes priorities; recommends procedures for receipt and storage of items; supervises inspection of items; conducts on-the-job training; establishes and maintains maintenance records.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in care and use of hand tools and test equipment. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (4/86).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in care and use of hand tools and test equipment. In the lower-division baccalaureate/associate degree category, 3 semester hours in troubleshooting and diagnostic procedures in system analysis and maintenance. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (4/86).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in care and use of hand tools and test equipment. In the lower-division baccalaureate/associate degree category, 3 semester hours in troubleshooting and diagnostic procedures in system analysis and maintenance and 2 in personnel supervision (4/86).

MOS-27N-001

FORWARD AREA ALERTING RADAR (FAAR)

REPAIRER

27N10

27N20

27N30

Exhibit Dates: 1/90-4/92. Effective 4/92, MOS 27N was discontinued.

Career Management Field: 27 (Land Combat and Air Defense System Intermediate Maintenance).

Description

Summary: Performs or supervises direct support and general support maintenance on the Forward Area Alerting Radar system, including radar, Target Alert Data Display Set (TADDS) and Interrogator Set (IFF). **Skill Level 10:** Performs support level maintenance on radar, TADDS, and IFF electronic assemblies and associated specialized test equipment, including organizational maintenance test set and support maintenance test set; troubleshoots assemblies, subassemblies, and modular and circuit elements; repairs, removes and/or replaces defective components and parts; inspects, tests, and adjusts FAAR system components; performs inspections; prepares and maintains equipment logs, modification and utilization records, exchange tags, and calibration data cards. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; provides technical assistance to supported units. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises subordinates; establishes work load and repair priorities; recommends procedures for receipt, storage, inspection, testing, and repair of FAAR system items; organizes and conducts on-the-job training programs; implements quality control measures.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in use and care of hand tools and test equipment. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (4/86).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in use and care of hand tools

and test equipment. In the lower-division baccalaureate/associate degree category, 3 semester hours in troubleshooting and diagnostic techniques in system analysis and maintenance and 3 in electronic circuitry (4/86).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in use and care of hand tools and test equipment. In the lower-division baccalaureate/associate degree category, 3 semester hours in troubleshooting and diagnostic techniques in system analysis and maintenance, 3 in electronic circuitry, and 2 in personnel supervision (4/86).

MOS-27T-001

AVENGER SYSTEM REPAIRER

(Pedestal Mounted Stinger, Line of Sight-

Rear Air Defense Systems Repairer)

27T10

27T20

27T30

27T40

Exhibit Dates: 3/90-Present.

Career Management Field: 27 (Land Combat and Air Defense System Intermediate Maintenance).

Description

Summary: Supervises or performs maintenance on a Pedestal Mounted Stinger/Avenger and associated components (less carrier and communications). **Skill Level 10:** Troubleshoots electrical, electronic, mechanical assemblies, and interconnecting cables; isolates malfunctions; repairs and replaces chassis-mounted components. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises subordinates; provides technical assistance to support units. **Skill Level 30:** Able to perform the duties required for Skill Level 20; establishes work loads and repair priorities; supervises inspection and maintenance teams; conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; establishes and manages maintenance records; prepares maintenance reports. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises and coordinates maintenance activities; supervises calibration of system electronic equipment; performs inspections and ensures quality control; assists in planning, organizing, directing, supervising, training, coordinating, and reporting activities of subordinate sections.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and 3 in military science. (NOTE: This recommendation for skill level 10 is valid for the dates 3/90-9/91 only) (3/92).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in military science, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 3/90-2/95 only) (3/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in military science, 3 in personnel supervision, and 2 in records and information management (3/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in military science, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (3/92).

MOS-27V-001

HAWK MAINTENANCE CHIEF

27V50

Exhibit Dates: 1/90-6/94. Effective 6/94, MOS 27V was discontinued and its duties were incorporated into MOS 27Z, Land Combat/Air Defense Systems Maintenance Chief.

Career Management Field: 27 (Land Combat and Air Defense System Direct and General Support Maintenance).

Description

Provides technical management for Hawk missile unit; serves as maintenance chief or first sergeant in support of platoon at battalion or higher level; supervises and coordinates maintenance activities; serves as senior noncommissioned officer in logistical support activities; establishes maintenance schedules, training programs, and production and control schedules; communicates with supervisors and subordinates using verbal, visual, and graphics presentations. (NOTE: May have progressed to 27V50 from 23R50 (Hawk Missile Systems Mechanic), 24R50 (Hawk Master Mechanic), 24H40 (Hawk Fire Control Repairer), 24K40 (Hawk Continuous Wave Radar Repairer), 27H40 (Hawk Firing Section Repairer), 27J40 (Hawk Field Maintenance Equipment/Pulse Acquisition Radar), 27K40 (Hawk Fire Control/Continuous Wave Radar Repairer), or 27X50 (Patriot System Mechanic)).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in records and information management, 3 in technical writing, and 3 in computer literacy. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in organizational management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (9/91).

MOS-27X-001

PATRIOT SYSTEM REPAIRER

27X20

27X30

27X40

27X50

Exhibit Dates: 3/90-2/95.

Career Management Field: 27 (Land Combat and Air Defense System Direct and General Support Maintenance).

Description

Summary: Supervises and performs direct, general, and depot maintenance support on Patriot missile system, associated equipment, and trainers. **Skill Level 20:** Performs direct, general, and depot support maintenance on engagement control station, phased-array radar, identification friend or foe equipment,

antenna, and the communications relay group; installs software modifications and develops specialized computer software test procedures; analyzes and interprets Patriot diagnostic test results; maintains VHF data links; performs some fiber optics repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs initial and final checkout and inspection of designated systems and their assemblies and subassemblies; serves as technical inspector of quality assurance section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises preparation of maintenance forms and reports; supervises organizational maintenance in an operational readiness float section. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises direct, general, and depot-level maintenance performed on the missile system.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems, 3 in computer systems troubleshooting and maintenance, 3 in digital principles, 3 in basic electronics, 3 in electronic systems troubleshooting and maintenance, and 3 in personnel supervision (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems, 4 in computer systems troubleshooting and maintenance, 3 in digital principles, 3 in basic electronics, 3 in electronic systems troubleshooting and maintenance, 3 in electronic communications, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (9/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems, 4 in computer systems troubleshooting and maintenance, 3 in digital principles, 3 in basic electronics, 3 in electronic systems troubleshooting and maintenance, 3 in electronic communications, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (9/91).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems, 4 in computer systems troubleshooting and maintenance, 3 in digital principles, 3 in basic electronics, 3 in electronic systems troubleshooting and maintenance, 3 in electronic communications, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (9/91).

MOS-27X-002

PATRIOT SYSTEM REPAIRER
27X20
27X30
27X40
27X50

Exhibit Dates: 3/95–Present.

Career Management Field: 27 (Land Combat and Air Defense System Direct and General Support Maintenance).

Description

Summary: Supervises and performs direct, general, and depot maintenance support on Patriot missile system, associated equipment, and trainers. *Skill Level 20:* Performs direct, general, and depot support maintenance on engagement control station, phased-array radar, identification friend or foe equipment, antenna, and the communications relay group; installs software modifications and develops specialized computer software test procedures; analyzes and interprets Patriot diagnostic test results; maintains VHF data links; performs some fiber optics repair. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs initial and final checkout and inspection of designated systems and their assemblies and subassemblies; serves as technical inspector of quality assurance section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises preparation of maintenance forms and reports; supervises organizational maintenance in an operational readiness float section. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises direct, general, and depot-level maintenance performed on the missile system.

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems, 3 in computer systems troubleshooting and maintenance, 3 in digital principles, 3 in basic electronics, 3 in electronic systems troubleshooting and maintenance, 3 in electronic communications, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (9/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems, 4 in computer systems troubleshooting and maintenance, 3 in digital principles, 3 in basic electronics, 3 in electronic systems troubleshooting and maintenance, 3 in electronic communications, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (9/91).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems, 4 in computer systems troubleshooting and maintenance, 3 in digital principles, 3 in basic electronics, 3 in electronic systems troubleshooting and maintenance, 3 in electronic communications, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (9/91).

MOS-27Z-001

LAND COMBAT SUPPORT SYSTEM (LCCS) MISSILE MAINTENANCE CHIEF
27Z50

Exhibit Dates: 1/90–2/91.

Career Management Field: 27 (Combat Missile Maintenance), subfield 272 (Combat Missile Repair).

Description

Coordinates support maintenance of the LCCS, including the Lance, TOW, Dragon, Chaparral, Shillelagh, and Redeye missile systems, Vulcan weapon system electronics, Forward Area Alerting Radar, and system-associated trainers and test equipment; helps determine and administers policy; assists superiors in planning and conducting training; advises superiors on all matters concerning enlisted personnel; may serve as a chief instructor in a training facility. **NOTE:** May have progressed to 27Z50 from 27D40 (Land Combat Support System Test Specialist), 27D40 (Lance Missile System Repairman), 27E40 (Wire-Guided Missile System Repairman), 27F40 (Chaparral/Vulcan Defense System Repairman), 27G40 (Redeye Missile System Repairman), 27H40 (Shillelagh Missile System Repairman), 24M40 (Vulcan System Mechanic), or 24N40 (Chaparral System Mechanic).

Recommendation

In the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in human relations, 6 for field experience in management, and additional credit in industrial arts education on the basis of institutional evaluation; if the duty assignment was chief instructor in a formal training facility, 3 additional semester hours for an internship in education (2/76).

MOS-27Z-002

MISSILE SYSTEMS MAINTENANCE CHIEF
(Land Combat/Air Defense Systems Maintenance Chief)
27Z50

Exhibit Dates: 3/91–Present.

Career Management Field: 27 (Land Combat and Air Defense System Direct and General Support Maintenance).

Description

Coordinates support maintenance of the Land Combat Support System (LCSS), including the Lance, TOW, Dragon, Chaparral, Shillelagh, and Redeye missile systems, Multiple Launch Rocket System (MLRS), Vulcan weapon system electronics, Forward Area Alerting Radar (FAAR), and system-associated trainers and test equipment; uses military-specific software for inventory control, production control and integrated automation system; continually updates and validates maintenance records; helps determine and administers policy; assists superiors in planning and accomplishing training; advises superiors on all matters concerning enlisted personnel; may serve as a chief instructor in a training facility. **NOTE:** May have progressed to 27Z50 from 21L50 (Pershing Electronics Repairer), 24M40 (Vulcan System Mechanic), 24N40 (Chaparral

System Mechanics, 27B40 (Land Combat Electrical-Mechanical Repairer)

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in records and information management, 3 in computer literacy, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management, if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (9/91).

MOS-29E-001

RADIO REPAIRER

29E10

29E20

29E30

Exhibit Dates: 1/90-1/94.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Installs and maintains radio receiver s, transmitters, and associated equipment. *Skill Level 10:* Uses oscilloscopes, multimeters, radio frequency generators, and spectrum analyzers to troubleshoot equipment; troubleshoots and repairs equipment to the component level; uses logical troubleshooting methods to locate faults. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists and instructs subordinates; keeps detailed records of maintenance history on equipment; follows formal maintenance procedures. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns duties to subordinates; establishes work load, work schedules, and priorities; responsible for quality control inspections; evaluates and counsels subordinates; maintains technical library; initiates and maintains forms and records; responsible for records pertaining to repair parts; prepares and reviews administrative reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 2 in electronic troubleshooting and repair, and 2 in radio communications. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 4 in electronic troubleshooting and repair, 2 in radio communications, and 2 in record keeping (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 4 in electronic troubleshooting and repair, 2 in radio communications, 2 in record keeping, 3 in maintenance management, and 3 in principles of supervision (7/87).

MOS-29E-002

RADIO REPAIRER

29E10

29E20

29E30

Exhibit Dates: 2/94-6/95. Effective 6/95, MOS 29E was discontinued and its duties were incorporated into MOS 35E.

Career Management Field: 29 (Signal Maintenance).

Description

Summary: Installs and maintains radio receivers, transmitters, and associated equipment. *Skill Level 10:* Uses oscilloscopes, multimeters, radio frequency generators, and spectrum analyzers to troubleshoot equipment; troubleshoots and repairs equipment to the component level; uses logical troubleshooting methods to locate faults; performs tests to verify operability of repaired equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists and instructs subordinates; keeps detailed records of equipment maintenance; performs final quality control inspection of repaired equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns duties; establishes work load, work schedules, and priorities; responsible for quality control inspections; evaluates and counsels subordinates; maintains technical library; initiates and maintains forms and records; responsible for records pertaining to repair parts; prepares and reviews administrative reports; develops operational procedures for service shop.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and repair, 2 in radio communications, and 2 in record keeping. (NOTE: This recommendation for skill level 20 is valid for the dates 2/94-2/95 only) (3/95).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and repair, 2 in radio communications, 2 in record keeping, 3 in maintenance management, and 3 in personnel supervision (3/95).

MOS-29F-001

FIXED COMMUNICATIONS SECURITY EQUIPMENT

REPAIRER

29F10

29F20

29F30

Exhibit Dates: 1/90-3/91. Effective 3/91, MOS 29F was discontinued and its duties were incorporated into MOS 29S, Field Communications Security Equipment Repairer.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Inspects, tests, and performs maintenance on fixed communications security (COMSEC) equipment. *Skill Level 10:* Operates conventional and specialized test equipment; performs repairs on equipment or system by removing and replacing defective equipment; installs and tests equipment; interprets system diagrams, troubleshooting charts, and technical publications; keeps maintenance records; individuals holding the following Additional Skill Identifiers (ASIs) perform

maintenance at the component level: ASI G7, COMSEC Equipment Full Maintenance (Field); ASI G8, COMSEC Equipment Full Maintenance (Fixed); ASI X8, COMSEC System Maintenance Specialized Repair Activity (SRA); and ASI X9, General COMSEC Maintenance Specialized Repair Activity (SRA). *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and procedural assistance to subordinates; prepares and maintains repair parts stock records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns duties to subordinates; establishes work load, work schedules, and maintenance priorities; responsible for quality control inspections; evaluates and counsels subordinate personnel; provides technical assistance to subordinates; maintains technical library; maintains forms and records; responsible for records pertaining to repair parts; prepares and reviews technical and administrative reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics and 1 in electronic troubleshooting and repair. If ASI G7, G8, X8, or X9 is held, 2 additional semester hours in electronic troubleshooting and repair (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 2 in electronic troubleshooting and repair, and 2 in record keeping. If ASI G7, G8, X8, or X9 is held, 2 additional semester hours in electronic troubleshooting and repair (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 2 in electronic troubleshooting and repair, 2 in record keeping, 3 in maintenance management, and 3 in principles of supervision. If ASI G7, G8, X8, or X9 is held, 2 additional semester hours in electronic troubleshooting and repair (7/87).

MOS-29J-001

TELETYPEWRITER EQUIPMENT REPAIRER

29J10

29J20

29J30

Exhibit Dates: 1/90-6/95. Effective 6/95, MOS 29J was discontinued and its duties were incorporated into MOS 35J.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Performs maintenance on electro-mechanical and electronic teletypewriter and facsimile equipment; individuals holding Additional Skill Identifier (ASI) T2, Teletypewriter Maintenance (MOD 40 TTY) also repair micro-computer systems. *Skill Level 10:* Installs, maintains, and repairs electrical and mechanical office machines at the module level; uses basic hand tools; reads elementary electrical and electronic diagrams; performs detailed testing to discover and diagnose causes of equipment malfunction. *Skill Level 20:* Able to perform the duties required for Skill Level 10; aligns electrical, electronic, and mechanical components as prescribed in applicable technical publications; reassembles and operates repaired equipment to

ensure conformity with technical specifications; uses proper techniques to maintain, localize, and isolate electrical, electronic, and mechanical causes of equipment malfunction; prepares and keeps maintenance forms and records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises four or more subordinates; able to diagnose equipment malfunctions and repair requirements; conducts on-the-job training; organizes and supervises maintenance and inspection teams; requisitions and stocks supplies and repair parts; maintains equipment forms and records; plans and schedules equipment maintenance.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in electronic troubleshooting and repair and 3 in introduction to electronics. If ASI T2 is held, 3 semester hours in microcomputer systems repair. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in electronic troubleshooting and repair, 3 in introduction to electronics, and 2 in record keeping. If ASI T2 is held, 3 semester hours in microcomputer systems repair. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in electronic troubleshooting and repair, 3 in introduction to electronics, 2 in record keeping, 3 in personnel supervision, and 3 in maintenance management. If ASI T2 is held, 3 semester hours in microcomputer systems repair (7/87).

MOS-29M-001

TACTICAL SATELLITE/MICROWAVE REPAIRER

29M10

29M20

29M30

Exhibit Dates: 1/90–12/91. Effective 12/91, MOS 29M was discontinued, and its duties were incorporated into MOS 29V, Strategic Microwave Systems Repairer.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Supervises and performs maintenance on tactical satellite, microwave, multi-channel radio, multiplexer and associated equipment. *Skill Level 10:* Operates vehicles and power generation equipment; inspects and repairs equipment using test equipment and procedures found in technical manuals to determine cause of malfunction and corrective action required; tests repaired item to insure proper operation; performs preventive maintenance checks; records maintenance activities on appropriate forms. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs complex maintenance duties; provides technical and procedural assistance to subordinates; requests and maintains authorized repair parts stock, supplies, and technical manuals. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns duties to subordinates; establishes work load, work schedules, and priorities; responsible for quality control inspections; evaluates, counsels, and

provides technical assistance to subordinates; maintains technical library; initiates and maintains forms and records; responsible for records pertaining to repair parts; prepares and reviews administrative reports; performs more complex troubleshooting.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in microwave communications systems, and 2 in electronic troubleshooting and repair. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in microwave communications systems, 4 in electronic troubleshooting and repair, and 2 in record keeping (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in microwave communications systems, 6 in electronic troubleshooting and repair, 2 in record keeping, 3 in principles of supervision, and 3 in maintenance management (7/87).

MOS-29N-001

SWITCHING CENTRAL REPAIRER

29N10

29N20

29N30

Exhibit Dates: 1/90–1/94.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Performs and supervises maintenance on manual and semiautomatic and selected transportable automatic electronic telephone central office systems. *Skill Level 10:* Maintains relay-operated central office systems and electronic switching systems; uses test equipment including oscilloscopes and multimeters. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as a crew chief; schedules tasks and maintains maintenance forms and records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns duties to subordinates; establishes work load, work schedules, and priorities; provides technical assistance to subordinates; maintains technical library; initiates and maintains forms and records; responsible for records pertaining to repair parts; prepares and reviews administrative reports.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in telephone equipment and repair. In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to electronics and 2 in electronic troubleshooting and repair. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/87).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in telephone equipment and repair. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 4 in electronic

troubleshooting and repair, and 2 in record keeping (7/87).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in telephone equipment and repair. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 4 in electronic troubleshooting and repair, 2 in record keeping, 3 in principles of supervision, and 3 in maintenance management (7/87).

MOS-29N-002

SWITCHING CENTRAL REPAIRER

29N10

29N20

29N30

Exhibit Dates: 2/94–2/95.

Career Management Field: 29 (Signal Maintenance).

Description

Summary: Performs and supervises maintenance on manual, semiautomatic, and selected transportable automatic electronic telephone central office systems using schematics and test equipment. *Skill Level 10:* Maintains relay-operated central office systems and electronic switching systems; uses test equipment including oscilloscopes and multimeters; uses circuit and wiring diagrams and schematics. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as a crew chief; schedules tasks and maintains maintenance forms and records; conducts quality control inspections on repaired equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns specific duties to subordinates; establishes work load, work schedules, and priorities; provides technical assistance to subordinates; maintains technical library; initiates and maintains forms and records; responsible for records pertaining to repair parts; prepares and reviews administrative reports; supervises quality control inspections.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electricity and electronics, 2 in electronic equipment repair, and 1 in maintenance record keeping (3/95).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electricity and electronics, 3 in electronic equipment repair, 2 in maintenance record keeping, 2 in personnel supervision, and 2 in maintenance management (3/95).

MOS-29N-003

SWITCHING CENTRAL REPAIRER

29N10

29N20

29N30

Exhibit Dates: 3/95–6/95. Effective 6/95, MOS 29N was discontinued, and its duties were incorporated into MOS 35N.

Career Management Field: 29 (Signal Maintenance).

Description

Summary: Performs and supervises maintenance on manual, semiautomatic, and selected transportable automatic electronic telephone central office systems using schematics and test equipment. *Skill Level 10:* Maintains relay-operated central office systems and electronic switching systems; uses test equipment including oscilloscopes and multimeters; uses circuit and wiring diagrams and schematics. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as a crew chief, schedules tasks and maintains maintenance forms and records; conducts quality control inspections on repaired equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns specific duties to subordinates; establishes work load, work schedules, and priorities; provides technical assistance to subordinates; maintains technical library; initiates and maintains forms and records; responsible for records pertaining to repair parts; prepares and reviews administrative reports; supervises quality control inspections.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electricity and electronics, 2 in electronic equipment repair, 1 in maintenance record keeping, 2 in personnel supervision, and 2 in maintenance management (3/95).

MOS-29P-001

COMMUNICATIONS SECURITY MAINTENANCE CHIEF
29P40

Exhibit Dates: 1/90-3/91. Effective 3/91, MOS 29P was discontinued, and its duties were incorporated into MOS 29S, Field Communications Security Equipment Repairer.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Supervises the maintenance and repair of communications security (COMSEC) equipment. May have progressed to 29P40 from 29F30, Fixed Communications Security Equipment Repairer, or 29S30, Field Communications Security Equipment Repairer; advises personnel, supervisors, and commanders on the operational matters dealing with COMSEC maintenance and supply; performs inspection of COMSEC accounting procedures; plans and supervises on-the-job training programs; evaluates and counsels subordinate personnel; supervises and coordinates maintenance and/or logistics support for COMSEC material.

Recommendation

In the upper-division baccalaureate category, 3 semester hours for field experience in management (7/87).

MOS-29S-001

FIELD COMMUNICATIONS SECURITY EQUIPMENT
REPAIRER
29S10
29S20
29S30
29S40

Exhibit Dates: 1/90-3/91

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Performs maintenance on field cryptographic equipment. *Skill Level 10:* Uses oscilloscopes and multimeters to troubleshoot cryptographic equipment; troubleshoots and repairs equipment to the board level; uses logical troubleshooting methods to locate faults; individuals holding the following Additional Skill Identifiers (ASIs) perform maintenance at the component level: ASI G7, COMSEC Equipment Full Maintenance (Field); ASI G8, COMSEC Equipment Full Maintenance (Fixed); ASI X8, COMSEC System Maintenance Specialized Repair Activity; and ASI X9, General COMSEC Maintenance Specialized Repair Activity. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists and instructs subordinates in equipment maintenance; keeps detailed records of maintenance history on equipment; follows formal maintenance system. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns duties to subordinates; establishes work load, work schedules, and priorities; responsible for quality control inspections; evaluates, counsels, and provides technical assistance to subordinates; maintains technical library; initiates and maintains forms and records; responsible for records pertaining to repair parts; prepares and reviews administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and provides technical guidance to subordinate personnel; supervises and organizes mobile maintenance inspection teams; advises commander on all matters pertaining to repair operations; plans and supervises on-the-job training programs.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics and 1 in electronic troubleshooting and repair. If ASI G7, G8, X8, or X9 is held, 2 additional semester hours in electronic troubleshooting and repair (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 2 in electronic troubleshooting and repair, and 2 in record keeping. If ASI G7, G8, X8, or X9 is held, 2 additional semester hours in electronic troubleshooting and repair (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 2 in electronic troubleshooting and repair, 2 in record keeping, 3 in maintenance management, and 3 in principles of supervision. If ASI G7, G8, X8, or X9 is held, 2 additional semester hours in electronic troubleshooting and repair (7/87).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 2 in electronic troubleshooting and repair, 2 in record keeping, 3 in maintenance management, and 3 in principles of supervision. If ASI G7, G8, X8, or X9 is held, 2 additional semester hours in electronic troubleshooting and repair. In the upper-division baccalaureate category, 3 semester hours for field experience in management (7/87).

MOS-29S-002

FIELD COMMUNICATIONS SECURITY EQUIPMENT
REPAIRER
29S10
29S20
29S30
29S40

Exhibit Dates: 3/91-1/94.

Career Management Field: 29 (Communications-Electronics Maintenance).

Description

Summary: Performs maintenance on field cryptographic equipment. *Skill Level 10:* Uses oscilloscopes and multimeters to troubleshoot cryptographic equipment; troubleshoots and repairs equipment to the board level; uses logical troubleshooting methods to locate faults; individuals holding the following Additional Skill Identifiers (ASIs) perform maintenance at the component level: ASI G7, COMSEC Equipment Full Maintenance (Field); ASI G8, COMSEC Equipment Full Maintenance (Fixed); ASI X8, COMSEC System Maintenance Specialized Repair Activity; and ASI X9, General COMSEC Maintenance Specialized Repair Activity. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists and instructs subordinates in equipment maintenance; keeps detailed records of maintenance history on equipment; follows formal maintenance system. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns duties to subordinates; establishes work load, work schedules, and priorities; responsible for quality control inspections; evaluates, counsels, and provides technical assistance to subordinates; maintains technical library; initiates and maintains forms and records; responsible for records pertaining to repair parts; prepares and reviews administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and provides technical guidance to subordinates; supervises and organizes mobile maintenance and inspection teams; advises commander on matters pertaining to repair operations; plans and supervises on-the-job training.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics and 1 in electronic troubleshooting and repair. If ASI G7, G8, X8, or X9 is held, 2 additional semester hours in electronic troubleshooting and repair. (NOTE: This recommendation for skill level 10 is valid for the dates 3/91-9/91 only) (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 2 in electronic troubleshooting and repair, and 2 in record keeping. If ASI G7, G8, X8, or X9 is held, 2 additional semester

ter hours in electronic troubleshooting and repair (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 2 in electronic troubleshooting and repair, 2 in record keeping, 3 in maintenance management, and 3 in principles of supervision. If ASI G7, G8, X8, or X9 is held, 2 additional semester hours in electronic troubleshooting and repair (7/87).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 2 in electronic troubleshooting and repair, 2 in record keeping, 3 in maintenance management, and 3 in principles of supervision. If ASI G7, G8, X8, or X9 is held, 2 additional semester hours in electronic troubleshooting and repair. In the upper-division baccalaureate category, 3 semester hours for field experience in management (7/87).

MOS-29S-003

COMMUNICATIONS SECURITY EQUIPMENT REPAIRER

29S10

29S20

29S30

29S40

Exhibit Dates: 2/94–2/95.

Career Management Field: 29 (Signal Maintenance).

Description

Summary: Performs maintenance on field cryptographic equipment. *Skill Level 10:* Operates, tests, troubleshoots, and calibrates all communications security (COMSEC) equipment; uses oscilloscopes and multimeters to determine board-level faults; records maintenance actions on appropriate forms; performs tests on repaired equipment and ensures compliance with security and calibration standards; individuals holding Additional Skill Identifier (ASI) G7 (COMSEC Equipment Full Maintenance) troubleshoot and repair equipment to the component level. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical assistance to subordinates; keeps detailed records of equipment maintenance history; follows formal maintenance system; prepares and maintains maintenance management and equipment control reports; controls and accounts for equipment repair items. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns duties to subordinates; establishes work load, work schedules, and priorities; responsible for quality control inspections; evaluates, counsels, and provides technical assistance to subordinates; maintains technical library; initiates and maintains forms and records; responsible for records pertaining to repair parts; prepares and reviews administrative reports; supervises quality control programs; conducts technical and on-the-job training. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and provides technical guidance to subordinates; supervises and organizes mobile maintenance and inspection teams; advises commander on matters pertaining to repair operations; plans and supervises on-the-job training; writes and maintains shop operating procedures; acquires repair parts and ensures material accountability.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic systems troubleshooting and repair, and 2 in introduction to computers (3/95).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic systems troubleshooting and repair, 2 in record keeping, 2 in maintenance management, 2 in personnel supervision, and 3 in introduction to computers. In the upper-division baccalaureate category, 2 semester hours for field experience in management (3/95).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic systems troubleshooting and repair, 2 in record keeping, 3 in maintenance management, 3 in personnel supervision, and 3 in introduction to computers. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/95).

MOS-29S-004

COMMUNICATIONS SECURITY EQUIPMENT REPAIRER

29S10

29S20

29S30

29S40

Exhibit Dates: 3/95–6/95. Effective 6/95, MOS 29S was discontinued, and its duties were incorporated into MOS's 35E and 35W.

Career Management Field: 29 (Signal Maintenance).

Description

Summary: Performs maintenance on field cryptographic equipment. *Skill Level 10:* Operates, tests, troubleshoots, and calibrates all communications security (COMSEC) equipment; uses oscilloscopes and multimeters to determine board-level faults; records maintenance actions on appropriate forms; performs tests on repaired equipment and ensures compliance with security and calibration standards; individuals holding Additional Skill Identifier (ASI) G7 (COMSEC Equipment Full Maintenance) troubleshoot and repair equipment to the component level. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical assistance to subordinates; keeps detailed records of equipment maintenance history; follows formal maintenance system; prepares and maintains maintenance management and equipment control reports; controls and accounts for equipment repair items. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns duties to subordinates; establishes work load, work schedules, and priorities; responsible for quality control inspections; evaluates, counsels, and provides technical assistance to subordinates; maintains technical library; initiates and maintains forms and records; responsible for records pertaining to repair parts; prepares and reviews administrative reports; supervises quality control programs; conducts technical and on-the-job training. *Skill Level 40:* Able to perform the

duties required for Skill Level 30; supervises and provides technical guidance to subordinates; supervises and organizes mobile maintenance and inspection teams; advises commander on matters pertaining to repair operations; plans and supervises on-the-job training; writes and maintains shop operating procedures; acquires repair parts and ensures material accountability.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (5/96).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic systems troubleshooting and repair, 2 in record keeping, 2 in maintenance management, 2 in personnel supervision, and 2 in introduction to computers. In the upper-division baccalaureate category, 2 semester hours for field experience in management (3/95).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic systems troubleshooting and repair, 2 in record keeping, 3 in maintenance management, 3 in personnel supervision, and 3 in introduction to computers. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/95).

MOS-29T-001

SATELLITE/MICROWAVE COMMUNICATIONS CHIEF
29T40

Exhibit Dates: 1/90–12/91. Effective 12/91, MOS 29T was discontinued, and its duties were incorporated into MOS 29V, Strategic Microwave Systems Repairer and MOS 29Y, Satellite Communications Systems Repairer.

Career Management Field: 29 (Communications Electronics Maintenance).

Description

Supervises unit and intermediate level maintenance of microwave communications systems including satellite and ground station installations; serves as principal noncommissioned officer; provides direction to personnel performing maintenance at ground station microwave and satellite installations; supervises maintenance personnel; coordinates and assigns duties; evaluates and counsels subordinates; advises superiors on maintenance activities; prepares and coordinates technical reports and correspondence; initiates and conducts on-the-job training; instructs subordinates in the utilization of special test equipment; performs liaison between staff, operation, and maintenance personnel. NOTE: May have progressed to 29T40 from 29V30 (Strategic Microwave Systems Repairer) or 29Y30 (Satellite Communications Systems Repairer).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (6/88).

MOS-29V-001

STRATEGIC MICROWAVE SYSTEMS REPAIRER

29V10

29V20

29V30

Exhibit Dates: 1/90-12/91.**Career Management Field:** 29 (Communications Electronics Maintenance).**Description**

Summary: Supervises, operates, and performs unit and intermediate maintenance on microwave communications equipment, terminals, and systems. **Skill Level 10:** Uses test equipment to troubleshoot microwave communications equipment, terminals, and systems; troubleshoots and repairs to the component level; operates equipment and completes preventive maintenance procedures. **Skill Level 20:** Able to perform the duties required for Skill Level 10; assists and instructs subordinates in equipment maintenance and provides technical assistance when needed; keeps detailed records of equipment maintenance. **Skill Level 30:** Able to perform the duties required for Skill Level 20; assigns duties; establishes work load, work schedules, and priorities; conducts quality control inspections; evaluates and counsels subordinates; maintains technical library; initiates and maintains forms and records; responsible for records pertaining to repair parts.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 2 in digital principles, and 3 in electronic systems troubleshooting and maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/88).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 2 in digital principles, 6 in electronic systems troubleshooting and maintenance, 2 in maintenance management, and 2 in record keeping (6/88).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 2 in digital principles, 6 in electronic systems troubleshooting and maintenance, 2 in maintenance management, 2 in record keeping, and 3 in principles of supervision (6/88).

MOS-29V-002

MICROWAVE SYSTEMS OPERATOR/REPAIRER

29V10

29V20

29V30

29V40

Exhibit Dates: 1/92-6/94. Effective 6/94, MOS 29V was discontinued, and its duties were incorporated into MOS 31P, Microwave Systems Operator-Maintainer.

Career Management Field: 29 (Communications-Electronics Maintenance).**Description**

Summary: Supervises, operates, and performs unit and intermediate maintenance on microwave communications equipment, terminals, and systems in ground station installations. **Skill Level 10:** Uses test equipment to

troubleshoot microwave communications equipment, terminals, and systems; troubleshoots and repairs to the component level; operates equipment and completes preventive maintenance procedures. **Skill Level 20:** Able to perform the duties required for Skill Level 10; assists and instructs subordinates in equipment maintenance and provides technical assistance when needed; keeps detailed records of equipment maintenance history. **Skill Level 30:** Able to perform the duties required for Skill Level 20; assigns duties; establishes work load, work schedules, and priorities; conducts quality control inspections; evaluates and counsels subordinates; maintains technical library; initiates and maintains forms and records; responsible for records pertaining to repair parts; prepares and reviews administrative reports. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises unit and intermediate maintenance of microwave communications systems (ground station installations); serves as principal noncommissioned officer; provides direction to personnel performing maintenance at ground station microwave installations; supervises maintenance personnel; coordinates and assigns duties; evaluates and counsels subordinates; advises superiors on maintenance activities; prepares and coordinates technical reports and correspondence; initiates and conducts on-the-job training; instructs subordinates in the utilization of special test equipment; performs liaison among staff, operation, and maintenance personnel.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 2 in digital principles, 6 in electronic systems troubleshooting and maintenance, 2 in maintenance management, and 2 in record keeping (6/88).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 2 in digital principles, 6 in electronic systems troubleshooting and maintenance, 2 in maintenance management, 2 in record keeping, and 3 in principles of supervision (6/88).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 2 in digital principles, 6 in electronic systems troubleshooting and maintenance, 2 in maintenance management, 2 in record keeping, and 3 in principles of supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (6/88).

MOS-29W-001

COMMUNICATIONS MAINTENANCE SUPPORT CHIEF

29W40

Exhibit Dates: 1/90-1/94.**Career Management Field:** 29 (Communications Electronics Maintenance).**Description**

Supervises the performance of unit, intermediate, and depot maintenance of communica-

tions equipment; coordinates duties; evaluates and counsels subordinates; advises superiors on maintenance activities; reviews, prepares, and coordinates technical reports and correspondence; initiates and conducts on-the-job and apprentice training; instructs subordinates in the use of special test equipment; performs liaison among staff, operation, and maintenance personnel; makes plans for the defense of the unit. NOTE: May have progressed to 29W40 from 29E30 (Radio Repairer), 29J30 (Teletypewriter Equipment Repairer), 29M30 (Tactical Satellite/Microwave Repairer), or 29N30 (Telephone Central Office Repairer).

Recommendation

In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (6/88).

MOS-29W-002

ELECTRONICS MAINTENANCE SUPERVISOR

(Communications Electronics Maintenance Chief)

29W40

Exhibit Dates: 2/94-6/95. Effective 6/95, MOS 29W was discontinued, and its duties were incorporated into MOS 35W.

Career Management Field: 29 (Signal Maintenance).**Description**

Supervises the performance of unit, intermediate, and depot maintenance of communications equipment; coordinates duties; evaluates and counsels subordinates; advises superiors on maintenance activities; reviews, prepares, and coordinates technical reports and correspondence; initiates and conducts on-the-job and apprentice training programs; instructs subordinates in the utilization of special test equipment; serves as liaison among staff, operation, and maintenance facilities; makes plans for the defense of the unit. NOTE: May have progressed to 29W40 from 29E30 (Radio Repairer), 29J30 (Telecommunications Terminal Device Repairer), 29N30 (Switching Control Repairer), 39C30 (Target Acquisition/Surveillance Radar Repairer), or 39E30 (Special Electronic Repairer).

Recommendation

In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (3/95).

MOS-29X-001

COMMUNICATIONS EQUIPMENT MAINTENANCE

CHIEF

29X50

Exhibit Dates: 1/90-3/91. Effective 3/91, MOS 29X was discontinued, and its duties were incorporated into MOS 29Z, Electronics Maintenance Chief.

Career Management Field: 29 (Communications Electronics Maintenance).**Description**

Supervises the Army's communications equipment maintenance mission; determines requirements, assigns overall duties, and coordinates activities of subordinates; develops and applies policies and procedures for a maintenance facility; selects communications sites and advises maintenance officer or unit commander on maintenance activities; conducts training

and prepares technical and administrative reports. **NOTE:** May have progressed to 29X50 from 29P40 (Communications Security Maintenance Chief), 29U40 (Digital Equipment Maintenance Chief), 29W40 (Communications Maintenance Support Chief), or 29T40 (Satellite Microwave Communications Chief).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (6/88).

MOS-29Y-001

SATELLITE COMMUNICATIONS (SATCOM)
SYSTEMS REPAIRER
29Y10
29Y20
29Y30

Exhibit Dates: 1/90-12/91.

Career Management Field: 29 (Communications Electronics Maintenance).

Description

Summary: Operates and maintains satellite ground station equipment. *Skill Level 10:* Operates and performs preventive maintenance on satellite ground station equipment; uses common electronic test equipment to test and repair digital circuitry; performs a limited amount of troubleshooting. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs extensive troubleshooting and repair of equipment; keeps maintenance records; supervises and provides guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; prepares technical and administrative reports; maintains files and records; assigns duties; performs and supervises quality control inspections; coordinates logistical support; establishes on-the-job training; advises superiors.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 2 in digital principles, and 1 in electronic systems troubleshooting and maintenance. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/88).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 2 in digital principles, 6 in electronic systems troubleshooting and maintenance, and 2 in record keeping (6/88).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 2 in digital principles, 6 in electronic systems troubleshooting and maintenance, 2 in record keeping, 2 in maintenance management, and 3 in principles of supervision (6/88).

MOS-29Y-002

SATELLITE COMMUNICATIONS (SATCOM)
SYSTEMS REPAIRER
29Y10
29Y20
29Y30
29Y40

Exhibit Dates: 1/92-6/94. Effective 6/94, MOS 29Y was discontinued, and its duties were incorporated into MOS 31S, Satellite Communications Systems Operator-Maintainer.

Career Management Field: 29 (Communications Electronics Maintenance).

Description

Summary: Operates and maintains satellite ground station equipment. *Skill Level 10:* Operates and performs preventive maintenance on satellite ground station equipment; uses common electronic test equipment to test and repair digital circuitry; performs a limited amount of troubleshooting. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs extensive troubleshooting and repair of equipment; keeps maintenance records; supervises and provides guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; prepares technical and administrative reports; maintains files and records; assigns duties; performs and supervises quality control inspections; coordinates logistical support; establishes on-the-job training; advises superiors. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises unit and intermediate maintenance of microwave communications systems (satellite installations); serves as principal noncommissioned officer; provides direction to personnel performing maintenance at satellite installations; supervises maintenance personnel; coordinates and assigns duties; evaluates and counsels subordinates; advises superiors on maintenance activities; prepares and coordinates technical reports and correspondence; initiates and conducts on-the-job training; instructs subordinates in the utilization of special test equipment; performs liaison among staff, operations, and maintenance personnel.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 2 in digital principles, 6 in electronic systems troubleshooting and maintenance, and 2 in record keeping (6/88).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 2 in digital principles, 6 in electronic systems troubleshooting and maintenance, 2 in record keeping, 2 in maintenance management, and 3 in principles of supervision (6/88).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics laboratory, 2 in digital principles, 6 in electronic systems troubleshooting and maintenance, 2 in record keeping, 2 in maintenance management, and 3 in principles of supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (6/88).

MOS-29Z-001

ELECTRONICS MAINTENANCE CHIEF
29Z50

Exhibit Dates: 1/90-6/95. Effective 6/95, MOS 29Z was discontinued, and its duties were incorporated into MOS's 35W, 35Z, and 31Z.

Career Management Field: 29 (Communications Electronics Maintenance).

Description

Supervises, monitors, and directs the Army's communications and electronics maintenance mission; determines requirements, assigns duties, and coordinates activities of subordinate units; develops and applies policies and procedures for maintenance facilities; briefs commander and staff on maintenance status of organization; prepares technical correspondence and administrative reports; supervises training in communications, operations, procedures, and maintenance practices. **NOTE:** May have progressed to 29Z50 from 29X50 (Communications Equipment Maintenance Chief), 39X50 (Electronics Equipment Maintenance Chief), or 35H50 (Calibration Specialist).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (6/88).

MOS-31C-001

RADIO OPERATOR-MAINTAINER
(Single-Channel Radio Operator)
31C10
31C20
31C30

Exhibit Dates: 1/90-Present.

Career Management Field: 31 (Communications-Electronics Operations).

Description

Summary: Installs and operates high frequency radio, radio telephone, teletype, single-channel satellite equipment, field generator power supplies, communications security devices, and associated equipment. *Skill Level 10:* Installs and operates equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises the operation of equipment; supervises 8-15 subordinates; performs combat communications-electronics planning and maintenance administration. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises 15-20 subordinates in the installation, operation, and maintenance of equipment; has additional skills in the areas of signal security, tactical satellite communications, and personnel guidance and supervision.

Recommendation, Skill Level 10

Credit is not recommended not recommended because the skills, competencies, and knowledge are uniquely military. If ASI was J7, WHCA Console Control Operations, credit as follows: In the lower-division baccalaureate/associate degree category, 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/85).

Recommendation, Skill Level 20

Credit is not recommended because the skills, competencies, and knowledge are uniquely military. If ASI was J7, WHCA Console Control Operations, credit as follows: In the lower-division baccalaureate/associate degree category, 1 semester hour in computer

literacy, 2 in files management, and 3 in introduction to voice communications networks. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (9/85).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision. If ASI was J7, WHCA Console Control Operations, additional credit as follows: In the lower-division baccalaureate/associate degree category, 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks (9/85).

MOS-31D-002

MOBILE SUBSCRIBER EQUIPMENT TRANSMISSION SYSTEM OPERATOR

31D10

31D20

31D30

Exhibit Dates: 1/90-6/95. Effective 6/95, MOS 31D was discontinued, and its duties were incorporated into MOS 31R.

Career Management Field: 31 (Signal Operations).

Description

Summary: Installs, operates, supervises, and performs unit maintenance on Mobile Subscriber Equipment (MSE) radio transmission equipment, radio access units, and interoperable devices. **Skill Level 10:** Installs, operates, and performs unit maintenance on line-of-sight multichannel radio terminals, radio access units, communications security (COMSEC) devices, multiplexing equipment, and antenna systems; interconnects equipment components and configures systems for operation; maintains records and reports pertaining to equipment operation; performs unit maintenance on MSE radio transmission and associated equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises and trains subordinate personnel; prepares work schedules and checks operation records and station files for completeness and accuracy; writes technical reports and ensures availability of spare parts and supplies. **Skill Level 30:** Able to perform the duties required for Skill Level 20; determines requirements, assigns duties, and coordinates activities of communications personnel; plans, supervises, and implements tactical training programs; prepares technical and administrative reports; supervises march orders and emplacement of section/team equipment; oversees and performs periodic and emergency adjustment on MSE transmission equipment, radio access units, and interoperable devices.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in data communications system troubleshooting and maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/90).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in data communications system troubleshooting and maintenance. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95) (6/90).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in data communications system troubleshooting and maintenance, 3 in principles of supervision, and 3 in maintenance management (6/90).

MOS-31F-001

NETWORK SWITCHING SYSTEMS OPERATOR/ MAINTAINER

(Electronic Switching Systems Operator)

(Mobile Subscriber Equipment Network

Switching System Operator)

31F10

31F20

31F30

Exhibit Dates: 1/90-Present.

Career Management Field: 31 (Signal Operations).

Description

Summary: Installs, operates, supervises, and performs unit maintenance on systems control center, node center switch, extension node switches, associated multiplexing equipment, net radio interface equipment, communications security devices, and remote transmission (down-the-hill) radios; troubleshoots to the board level using digital multimeters, computer terminals with diagnostic readouts, and board level LEDs and configuration switches. **Skill Level 10:** Initializes and loads data base; positions, assembles, and interconnects equipment components; operates motor vehicles and power generation equipment; adjusts and aligns equipment to prescribed tolerances; interprets and uses operating instructions, data base information, and system diagrams; establishes and maintains net connectivity; inputs and receives information from system control center for transmitting and receiving operating directives and data base input/output; provides subscriber assistance; interprets computer printouts to troubleshoot, repair, or replace faulty line replaceable units; coordinates with system operators and managers to resolve difficulties; places spare equipment into operation upon failure of on-line unit. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises installation, operation, and maintenance; trains personnel in the employment and operation of equipment; assists in selection of sites; corrects faulty work practices and operating procedures; performs various supervisory duties pertaining to work schedules, records, supplies, and reports. **Skill Level 30:** Able to perform the duties required for Skill Level 20; determines requirements, assigns duties, and coordinates activities of communications personnel; plans, implements, and supervises training programs; supervises maintenance programs; coordinates logistical support; prepares and oversees technical and administrative reports; oversees/performs periodic and emergency adjustments.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in data communications system troubleshooting and maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/90).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in data com-

munications system troubleshooting and maintenance. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (6/90).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in data communications system troubleshooting and maintenance, 3 in principles of supervision, and 3 in maintenance management (6/90).

MOS-31G-002

TACTICAL COMMUNICATIONS CHIEF

31G30

31G40

Exhibit Dates: 1/90-6/93. Effective 6/93, MOS 31G was discontinued, and its duties were incorporated into MOS 31U, Signal Support Systems Specialist.

Career Management Field: 31 (Communications Electronics Operations).

Description

Summary: Supervises the installation, operation, and maintenance of communications systems in infantry, armor, artillery, or other units employing similar methods of communication. **Skill Level 30:** Plans, coordinates, and supervises the installation, operation, and maintenance of ground FM radio and field wire communications systems, air ground radio sets, radioteletypewriter sets, and switchboard systems; coordinates activities and assigns duties; conducts training programs; advises the commander on communications matters. (NOTE: May have progressed to 31G30 from 31K20 (Combat Signaler) or 31V20 (Unit Level Communications Maintainer). **Skill Level 40:** Able to perform the duties required for Skill Level 30; monitors and coordinates the operation of the various elements of integrated communications systems; prepares, supervises, and conducts training programs; prepares technical and administrative reports; assists in selecting locations for communications facilities; performs liaison among staff, operations, and maintenance personnel.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision and 3 in maintenance management. If ASI was J7, WHCA Console Control Operations, additional credit as follows: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks (6/88).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision and 3 in maintenance management. If ASI was J7, WHCA Console Control Operations, additional credit as follows: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks. In the upper-division baccalaureate category, 3 semester hours in management problems and 3 for field experience in management (6/88).

MOS-31K-001

COMBAT SIGNALER

31K10

31K20

Exhibit Dates: 1/90–6/93. Effective 6/93, MOS 31K was discontinued and its duties were incorporated into MOS 31L, Wire Systems Installer, or 31U, Signal Support Systems Specialist.

Career Management Field: 31 (Communications-Electronics Operations).

Description

Summary: Supervises, installs, operates, and maintains basic wire, switchboard, and frequency modulation (FM) radio communications equipment and systems in combat, combat support, and combat service support units. **Skill Level 10:** Performs field wire system troubleshooting; splices wires; installs field telephones and FM radios; processes messages. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises and trains subordinates; estimates supply requirements; interprets maps and overlays.

Recommendation, Skill Level 10

Credit is not recommended because the skills, competencies, and knowledge are uniquely military in nature (9/85).

Recommendation, Skill Level 20

Credit is not recommended because the skills, competencies, and knowledge are uniquely military in nature (9/85).

MOS-31L-002

CABLE SYSTEMS INSTALLER-MAINTAINER

(Wire Systems Installer)

31L10

31L20

31L30

Exhibit Dates: 1/90–Present.

Career Management Field: 31 (Communications-Electronics Operations).

Description

Summary: Installs, operates, supervises, and performs operator maintenance on wire and cable communications systems; operates pole-setting and reeling equipment; works on wood structures using tools and techniques compatible with industry practice; installs field phones and cabling to telephone switchboards; identifies and corrects faults in telephone sets; tests, repairs, and splices wire/cable; knows CPR procedures, first aid, and safety practices relating to line construction. **Skill Level 10:** Installs, operates, and performs operator maintenance on wire and cable systems, including repeaters, restorers, voltage protective devices, telephones, test stations, and telephone substation equipment; climbs poles; clears and maintains rights of way; assists in the construction of tactical wire/cable and pole lines; operates construction equipment; maintains and tests cable communication systems using a variety of test equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; coordinates and supervises team member activities in construction, installation, and rehabilitation of wire and cable communication systems and auxiliary equipment; coordinates logistic requirements. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises and coordinates all phases of construction, installation, and maintenance of wire/cable systems; schedules work load; estimates time, supplies, personnel, and equipment requirements; checks maintenance performed by subordi-

nates; plans and conducts training and prepares required reports.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in pole and line construction (communications systems), 3 in telephone installation and repair, and 1 in first aid/CPR. In the lower-division baccalaureate/associate degree category, if ASI was J7, WHCA Console Control Operations, additional credit as follows: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/88).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in pole and line construction (communications systems), 3 in telephone installation and repair, 1 in first aid/CPR, and 3 in construction technology/heavy equipment. In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of supervision. If ASI was J7, WHCA Console Control Operations, additional credit as follows: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (6/88).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in pole and line construction (communications systems), 3 in telephone installation and repair, 1 in first aid/CPR, and 3 in construction technology/heavy equipment. In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision and 3 in maintenance management. If ASI was J7, WHCA Console Control Operations, additional credit as follows: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks (6/88).

MOS-31M-003

MULTICHANNEL COMMUNICATIONS EQUIPMENT

OPERATOR

31M10

31M20

31M30

Exhibit Dates: 1/90–5/91.

Career Management Field: 31 (Communications-Electronics Operations).

Description

Summary: Installs, operates, and supervises multichannel communications equipment. **Skill Level 10:** Installs and operates multichannel communications equipment, including radio, communications security devices, and multiplexer equipment; performs elementary operating checks and replaces modules as needed. **Skill Level 20:** Able to perform the duties required for Skill Level 10; operates and supervises the operation of multichannel communications equipment; applies fundamentals of radio procedures, communications security procedures, and precautions; oversees periodic and emergency maintenance; may supervise up to six persons. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises the installation and operation of multichannel communications systems; prepares and disseminates work schedules, operational procedures,

and instructions; prepares traffic diagrams and administrative orders relative to system design; may supervise from five to nineteen subordinates.

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in laboratory practices. In the lower-division baccalaureate/associate degree category, if ASI was J7, WHCA Console Control Operations, additional credit as follows: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks (10/79).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in laboratory practices. In the lower-division baccalaureate/associate degree category, if ASI was J7, WHCA Console Control Operations, additional credit as follows: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks (10/79).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in laboratory practices. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision. If ASI was J7, WHCA Console Control Operations, additional credit as follows: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks (10/79).

MOS-31M-004

MULTICHANNEL TRANSMISSION SYSTEMS OPERATOR

(Multichannel Communications Systems Operator)

31M10

31M20

31M30

Exhibit Dates: 6/91–6/95. Effective 6/95, MOS 31M was discontinued, and its duties were incorporated into MOS's 31R and 31S.

Career Management Field: 31 (Signal Operations).

Description

Summary: Installs, operates, and supervises multichannel communications equipment. **Skill Level 10:** Installs and operates multichannel communications equipment (both analog and digital), including radio, communications security devices, and multiplexer equipment; performs elementary operating checks and replaces modules as needed; may also install and operate fiber optic communications links. **Skill Level 20:** Able to perform the duties required for Skill Level 10; operates and supervises the operation of multichannel communications equipment; applies fundamentals of radio procedures, communications security procedures, and precautions; oversees periodic and emergency maintenance; may supervise up to six persons. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises the installation and operation of multichannel communications systems; prepares and disseminates work schedules, operational procedures, and instructions; prepares traffic diagrams and administrative orders relative to system design; may supervise from five to nineteen subordinates.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronics laboratory and 3 in introduction to voice communications systems. If ASI was J7, WHCA Console Control Operations, additional credit as follows: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks. (NOTE: This recommendation for skill level 10 is valid for the dates 6/91-9/91 only.) (6/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronics laboratory, 3 in introduction to voice communications systems, 2 in records and information management, 2 in maintenance management, and 3 in personnel supervision. If ASI was J7, WHCA Console Control Operations, additional credit as follows: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks. (NOTE: This recommendation for skill level 20 is valid for the dates 6/91-2/95 only.) (6/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronics laboratory, 3 in introduction to voice communications systems, 2 in records and information management, 3 in maintenance management, and 3 in personnel supervision. If ASI was J7, WHCA Console Control Operations, additional credit as follows: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks (6/91).

MOS-31N-003**COMMUNICATIONS SYSTEMS/CIRCUIT CONTROLLER**

31N10
31N20
31N30
31N40

Exhibit Dates: 1/90-6/94. Effective 6/94, MOS 31N was discontinued, and its duties were incorporated into MOS 31P, Microwave Systems Operator-Maintainer.

Career Management Field: 31 (Signal Operations).

Description

Summary: Supervises or operates communications patching panels to establish interconnections between communications facilities. **Skill Level 10:** Terminates and patches circuits in accordance with patching orders; designates cable pairs to be used between loop and terminal; assists in testing local wire, radio, data, and teletypewriter circuits; operates test equipment, including oscilloscope, signal generator, and multimeter, to identify circuit and equipment faults; operates telephone switchboard and teletypewriter components of patching panels; interprets system maps, overlays, and circuit diagrams. **Skill Level 20:** Able to perform the duties required for Skill Level 10; may supervise up to three subordinates; troubleshoots communications equipment, including VHF, microwave, troposcatter, satellite, and other narrow band or wideband systems; prepares circuit connection record and interprets routing charts and communications diagrams; maintains circuit control records; identifies sources of communications interference and circuit

trouble. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises circuit activities in a switching center; supervises the installation and operation of system control facilities; diagnoses and determines causes of malfunctions of circuits and equipment; interprets and prepares operating instructions, circuit routing charts, communications diagrams, route bulletins, circuit registers, and other pertinent diagrams, charts, and records; evaluates performance of subordinates; may supervise four or more persons. **Skill Level 40:** Able to perform the duties required for Skill Level 30, establishes maintenance procedures, coordinates and supervises organizational maintenance of circuit activities in a switching center of a system control facility.

Recommendation, Skill Level 10

Credit is not recommended because of the limited or specialized nature of the skills, competencies, and knowledge (6/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in records and information management, 2 in maintenance management, and 3 in personnel supervision (6/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in records and information management, 3 in maintenance management, and 3 in personnel supervision (6/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in records and information management, 3 in maintenance management, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (6/91).

MOS-31P-001**MICROWAVE SYSTEMS OPERATOR-MAINTAINER**

31P10
31P20
31P30
31P40

Exhibit Dates: 2/94-2/95.

Career Management Field: 31 (Signal Operations).

Description

Summary: Supervises, operates, and maintains microwave communications systems, antennas, and support equipment; performs quality control and testing of circuits, trunks, links, systems, and facilities. **Skill Level 10:** Configures, aligns, and performs maintenance on microwave communications and support equipment; monitors, diagnoses, and restores circuits, systems, and interface equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; performs complex microwave system troubleshooting and maintenance tasks; provides technical assistance to personnel engaged in operation and maintenance of microwave systems; supervises and assists subordinates in performing preventive maintenance on assigned communications equipment. **Skill Level 30:** Able to perform the duties required for Skill Level 20; implements service orders; supervises the operation and maintenance of

communications systems, performs limited maintenance on the equipment, establishes work load and repair priorities, performs or supervises quality control and technical inspections. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises, plans, and directs the installation, operation, and maintenance of microwave communications systems and facilities; prepares equipment service requests; provides technical advice and assistance; writes operating policies and procedures; determines unit capability; develops and conducts training for subordinates.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and repair, 2 in maintenance management, and 2 in personnel supervision (3/95).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in electronic systems troubleshooting and repair, 3 in maintenance management, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field supervision in management (3/95).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in electronic systems troubleshooting and repair, 4 in maintenance management, and 4 in personnel supervision. In the upper-division baccalaureate category, 4 semester hours for field experience in management (3/95).

MOS-31P-002**MICROWAVE SYSTEMS OPERATOR-MAINTAINER**

31P10
31P20
31P30
31P40

Exhibit Dates: 3/95-Present.

Career Management Field: 31 (Signal Operations).

Description

Summary: Supervises, operates, and maintains microwave communications systems, antennas, and support equipment; performs quality control and testing of circuits, trunks, links, systems, and facilities. **Skill Level 10:** Configures, aligns, and performs maintenance on microwave communications and support equipment; monitors, diagnoses, and restores circuits, systems, and interface equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; performs complex microwave system troubleshooting and maintenance tasks; provides technical assistance to personnel engaged in operation and maintenance of microwave systems; supervises and assists subordinates in performing preventive maintenance on assigned communications equipment. **Skill Level 30:** Able to perform the duties required for Skill Level 20; implements service orders; supervises the operation and maintenance of communications systems; performs limited maintenance on the equipment; establishes work load and repair priorities; performs or supervises quality control and technical inspection.

tions. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises, plans, and directs the installation, operation, and maintenance of microwave communications systems and facilities; prepares equipment service requests; provides technical advice and assistance; writes operating policies and procedures; determines unit capability; develops and conducts training for subordinates.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (5/96).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and repair, 3 in maintenance management, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field supervision in management (3/95).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in electronic systems troubleshooting and repair, 4 in maintenance management, and 4 in personnel supervision. In the upper-division baccalaureate category, 4 semester hours for field experience in management (3/95).

MOS-31Q-001

TACTICAL SATELLITE/MICROWAVE SYSTEMS

OPERATOR

31Q10

31Q20

31Q30

Exhibit Dates: 1/90–12/91. Effective 12/91, MOS 31Q was discontinued, and its duties were incorporated into MOS 31M, Multichannel Communications Systems Operator, and ASI 7A, Satellite Communications Terminal AN/TSC-85 Operator/Maintainer.

Career Management Field: 31 (Communications-Electronics Operations).

Description

Summary: Supervises or performs installation, operation, and maintenance of microwave, troposcatter radio, satellite, and multiplexing equipment. *Skill Level 10:* Installs, operates, and maintains microwave, troposcatter radio satellite, multiplexing equipment, and associated power equipment and communications security devices; assembles, erects, and orients antennas; tunes, adjusts, and aligns equipment for maximum performance; adjusts multiplexing equipment for maximum efficiency; operates voice frequency and teletype equipment; performs satellite balancing procedures; employs test equipment and tools such as spectrum analyzers and voltmeters; corrects operational troubles; detects electronic countermeasures; interprets military maps and traffic diagrams; applies safety precautions around high voltages and performs emergency actions in event of injury. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists in selection of site for equipment installation; makes alignment adjustments for maximum efficiency; monitors operations of system equipment; recognizes electronic countermeasures and employs corrective action;

maintains station logs; provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises installation of station equipment and performance of personnel; instructs in proper operating procedures; maintains logs and records; prepares administrative and technical reports; requisitions supplies; provides assistance in complex or unusual operational problems; supervises and evaluates five or more subordinates.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in electronic troubleshooting and repair and 2 in satellite communication systems. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90–9/91 only) (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in electronic troubleshooting and repair, 2 in satellite communication systems, and 2 in record keeping (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in electronic troubleshooting and repair, 2 in satellite communication systems, 2 in record keeping, 3 in principles of supervision, and 3 in maintenance management (7/87).

MOS-31R-001

MULTICHANNEL TRANSMISSION SYSTEMS

OPERATOR/MAINTAINER

31R10

31R20

31R30

Exhibit Dates: Pending Evaluation. 2/95–Present.

MOS-31S-004

SATELLITE COMMUNICATIONS SYSTEMS OPERATOR-MAINTAINER

31S10

31S20

31S30

31S40

Exhibit Dates: 2/94–Present.

Career Management Field: 31 (Signal Operations).

Description

Summary: Installs, operates, maintains, and supervises satellite communications ground terminals, systems, networks, and associated equipment; operates and performs preventive maintenance checks and services on communications equipment, vehicles, and power generators. *Skill Level 10:* Configures, aligns, tests, and maintains satellite communications equipment and associated devices; conducts network operations; performs quality control tests; prepares system and equipment forms and reports; operates and performs preventive maintenance on assigned equipment, vehicles, and power generators. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical assistance to subordinates; identifies and reports electronic jamming and applies appropriate electronic countermeasures; supervises and performs alignment of communications systems; ensures adequate inventory of spare parts; compiles system and network sta-

tistics for reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans, supervises, and integrates the installation, operation, and maintenance of satellite communication equipment; establishes work load, work schedules, and maintenance priorities; trains subordinates; consolidates system and network statistics and reports; implements service orders; performs and supervises quality control inspections. *Skill Level 40:* Develops and ensures compliance with policies and procedures related to facility management; determines capabilities and limitations of assigned equipment; handles service requests from joint defense or commercial activities; provides training to subordinates; manages security programs for satellite facilities.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and repair and 3 in basic electronics. (NOTE: This recommendation for skill level 20 is valid for the dates 2/94–2/95 only) (3/95).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and repair, 3 in basic electronics, 2 in personnel supervision, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/95).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and repair, 3 in basic electronics, 2 in record keeping, 3 in personnel supervision, and 3 in maintenance management. In the upper-division baccalaureate category, 4 semester hours for field experience in management (3/95).

MOS-31T-004

SATELLITE/MICROWAVE SYSTEMS CHIEF

31T50

Exhibit Dates: 2/94–Present.

Career Management Field: 31 (Signal Operations).

Description

Supervises and directs duties of subordinates in the installation and operation of satellite/microwave communications control system; keeps records and writes reports on operation, utilization, and maintenance of satellite microwave communications control system plans; directs personnel assignments; performs liaison among command, staff, operations, and maintenance personnel; delegates the preparation of technical studies, evaluation reports, and associated records. NOTE: May have progressed to 31T50 from Skill Level 40 of MOS 31S (Satellite Communication Systems Operator/Maintainer) or MOS 31P (Microwave Systems Operator/Maintainer).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic systems troubleshooting and repair, 2 in record keeping, 3 in personnel supervision, and 3 in maintenance management.

In the upper-division baccalaureate category, 4 semester hours for field experience in management (3/95).

MOS-31U-002

SIGNAL SUPPORT SYSTEMS SPECIALIST

31U10
31U20
31U30
31U40
31U50

Exhibit Dates: 2/93-2/95

Career Management Field: 31 (Signal Operations).

Description

Summary: Supervises, installs, maintains, troubleshoots, and employs battlefield signal support systems; performs unit maintenance on signal equipment and trains users of equipment. **Skill Level 10:** Installs, maintains, and troubleshoots signal support equipment, radio systems, and data distribution systems; provides technical support and training for users. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises, installs, maintains, and troubleshoots signal support systems, radio systems, and battlefield automated systems; provides training and unit technical assistance; prepares maintenance and supply requests. **Skill Level 30:** Able to perform the duties required for Skill Level 20; plans, supervises, and integrates the installation, operation, and maintenance of signal support systems; plans, supervises, and executes unit maintenance programs, operations orders, and reports; plans and provides unit training. **Skill Level 40:** Able to perform the duties required for Skill Level 30; plans and supervises the installation, operation, and maintenance of signal support systems and network integration; develops and implements unit maintenance programs; directs unit training; provides technical advice and logistics support for unit operations and maintenance. **Skill Level 50:** Able to perform the duties required for Skill Level 40; supervises, plans, and integrates the installation, employment, and maintenance of signal support systems; develops staff policies and procedures; provides technical advice and assistance to commanders and subordinate units; develops signal battlefield integration plans; coordinates all aspects of signal activities with higher, lower, and adjacent headquarters.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in electronic systems troubleshooting and repair (3/95).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and repair, 3 in maintenance management, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/95).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting

and repair, 4 in maintenance management, and 3 in personnel supervision. In the upper-division baccalaureate category, 4 semester hours for field experience in management (3/95).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and repair, 4 in maintenance management, and 3 in personnel supervision. In the upper-division baccalaureate category, 5 semester hours for field experience in management (3/95).

MOS-31U-003

SIGNAL SUPPORT SYSTEMS SPECIALIST

31U10
31U20
31U30
31U40
31U50

Exhibit Dates: 3/95-Present.

Career Management Field: 31 (Signal Operations).

Description

Summary: Supervises, installs, maintains, troubleshoots, and employs battlefield signal support systems; performs unit maintenance on signal equipment and trains users of equipment. **Skill Level 10:** Installs, maintains, and troubleshoots signal support equipment, radio systems, and data distribution systems; provides technical support and training for users. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises, installs, maintains, and troubleshoots signal support systems, radio systems, and battlefield automated systems; provides training and unit technical assistance; prepares maintenance and supply requests. **Skill Level 30:** Able to perform the duties required for Skill Level 20; plans, supervises, and integrates the installation, operation, and maintenance of signal support systems; plans, supervises, and executes unit maintenance programs, operations orders, and reports; plans and provides unit training. **Skill Level 40:** Able to perform the duties required for Skill Level 30; plans and supervises the installation, operation, and maintenance of signal support systems and network integration; develops and implements unit maintenance programs; directs unit training; provides technical advice and logistics support for unit operations and maintenance. **Skill Level 50:** Able to perform the duties required for Skill Level 40; supervises, plans, and integrates the installation, employment, and maintenance of signal support systems; develops staff policies and procedures; provides technical advice and assistance to commanders and subordinate units; develops signal battlefield integration plans; coordinates all aspects of signal activities with higher, lower, and adjacent headquarters.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic systems troubleshooting and repair, 3 in maintenance management, and

3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/95).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and repair, 4 in maintenance management, and 3 in personnel supervision. In the upper-division baccalaureate category, 4 semester hours for field experience in management (3/95).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems troubleshooting and repair, 4 in maintenance management, and 3 in personnel supervision. In the upper-division baccalaureate category, 5 semester hours for field experience in management (3/95).

MOS-31V-002

UNIT LEVEL COMMUNICATIONS MAINTAINER

31V10
31V20

Exhibit Dates: 1/90-6/93. Effective 6/93, MOS 31V was discontinued, and its duties were incorporated into MOS 31U, Signal Support Systems Specialist.

Career Management Field: 31 (Communications Electronics Operations).

Description

Summary: Installs, operates, supervises, and performs preventive maintenance on tactical communications and selected electronic equipment in tactical units. **Skill Level 10:** Installs and operates tactical radio equipment; performs limited maintenance, such as module replacement and antenna repair on HF and VHF ground and air-to-ground tactical equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises the preparation of equipment maintenance records; conducts on-the-job training programs.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic communications and 3 in basic electronics laboratory. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/88).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic communications, 3 in basic electronics laboratory, 2 in personnel supervision, and 3 in record keeping (6/88).

MOS-31W-002

TELECOMMUNICATIONS OPERATIONS CHIEF

(Mobile Subscriber Equipment Communications Chief)
31W40
31W50

Exhibit Dates: 1/90-Present.

Career Management Field: 31 (Signal Operations).

Description

Summary: Plans, coordinates, directs, provides technical assistance, and supervises the installation, operation and maintenance of Mobile Subscriber Equipment (MSE). **Skill Level 40:** Assigns, supervises and coordinates

duties of subordinate personnel concerning setup and operation of MSE equipment, supervises preparation of records and reports; supervises and conducts training in operating techniques, equipment utilization, and maintenance; manages, develops, and supervises maintenance system; monitors adequacy and effectiveness of maintenance programs and supply support. **NOTE:** May have progressed to 31W40 from 31D30 (Mobile Subscriber Equipment Transmission System Operator) or 31F30 (Mobile Subscriber Equipment Network Switching System Operator). **Skill Level 50:** Able to perform the duties required for Skill Level 40; plans, coordinates, and directs deployments; performs liaison among command, staff, operations, and maintenance personnel; prepares and supervises the preparation of technical studies, evaluation reports, and associated records.

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, if ASI was J7, WHCA Console Control Operations, the following credit applies: 3 semester hours in computer literacy, 2 in files management, and 3 in introduction to voice communications networks. In the upper-division baccalaureate category, for all individuals: 3 semester hours for field experience in management and 3 in management problems (6/90).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, if ASI was J7, WHCA Console Control Operations, the following credit applies: 3 semester hours in computer literacy, 2 in files management, and 3 in introduction to voice communications networks. In the upper-division baccalaureate category, for all individuals: 6 semester hours for field experience in management and 3 in management problems (6/90).

MOS-31Y-001

TELECOMMUNICATIONS SYSTEMS SUPERVISOR
(Communications Systems Supervisor)
31Y40

Exhibit Dates: 1/90–6/95. Effective 6/95, MOS 31Y was discontinued, and its duties were incorporated into MOS's 31W and 31S.

Career Management Field: 31 (Communications Electronics Operations).

Description

Directs, coordinates, and manages the installation, operation, and maintenance of manual and automated communications equipment, systems, and facilities; provides technical guidance concerning all aspects of communications systems employment, maintenance, and logistical support; prepares technical reports; maintains system documentation; conducts briefings for staff and maintenance personnel; performs liaison with staff, operations, and maintenance personnel; manages human resource functions for personnel engaged in the maintenance and operations of wire and cable systems, switchboards, radioteletype, relay, satellite, and microwave communications; conducts training programs. **NOTE:** May have progressed to 31Y40 from 13C30 (Single Channel Radio Operator), 31L30 (Wire Systems Installer), 31M30 (Multichannel Communications Systems Operator), 31Q30 (Tactical Satellite/Microwave Systems Operator), 36L30 (Trans-

portable Automatic Switching Systems Operator/Maintainer), or 36M30 (Switching Systems Operator).

Recommendation

In the lower-division baccalaureate/associate degree category, if ASI was J7, WHCA Console Control Operations, the following credit applies: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks. In the upper-division baccalaureate category, for all individuals: 3 semester hours in management problems and 3 for field experience in management (6/88).

MOS-31Z-003

SENIOR SIGNAL SERGEANT
(Communications-Operations Chief)
31Z50

Exhibit Dates: 1/90–Present.

Career Management Field: 31 (Communications Electronics Operations).

Description

Supervises, coordinates, and directs the installation, operation, and maintenance of integrated electronic communications systems; manages communications facility; performs liaison with civilian, command staff, and operations and maintenance personnel; plans, organizes, directs, and supervises the deployment of integrated communications systems, including site selection, personnel assignments, and budget development. **NOTE:** May have progressed to 31Z50 from 31G40 (Tactical Communications Chief), 31Y40 (Communications Systems Supervisor), 31X40 (Communications Systems/Circuit Control Supervisor), 72E40 (Tactical Telecommunications Center Operator), or 72G40 (Automatic Data Telecommunications Center Operator).

Recommendation

In the lower-division baccalaureate/associate degree category, if ASI was J7, WHCA Console Control Operations, the following credit applies: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks. In the upper-division baccalaureate category, for all individuals: 3 semester hours in organizational management and 3 for field experience in management (6/88).

MOS-33M-001

ELECTRONIC WARFARE/INTERCEPT STRATEGIC
SYSTEMS ANALYST AND COMMAND AND
CONTROL SUBSYSTEMS REPAIRER
33M20
33M30
33M40

Exhibit Dates: 1/90–9/91. Effective 9/91 MOS 33M was discontinued, and its duties were incorporated into MOS 33Y, Strategic Systems Repairer.

Career Management Field: 33 (Electronic Warfare/Intercept Systems Maintenance).

Description

Summary: Supervises or performs unit, intermediate, and depot maintenance on bus controllers, time code generators, microcomputers, and peripheral equipment. **Skill Level 20:** Replaces, repairs, and installs electronic warfare/intercept command and control equipment accord-

ing to manufacturers' instructions; conducts electrical and mechanical tests using wiring diagrams and technical manuals; performs preventive maintenance on computers and computer peripherals. **Skill Level 30:** Able to perform the duties required for Skill Level 20; serves as maintenance team leader or assistant team leader; serves as quality assurance inspector and equipment calibration coordinator; manages, counsels, and evaluates subordinates; develops maintenance procedures; prepares and reviews technical reports; maintains a technical library; requisitions spare parts; maintains records; conducts on-the-job training. **Skill Level 40:** Able to perform the duties required for Skill Level 30; serves as team leader or shop foreman; assigns personnel to maintenance teams and supervises team activities; conducts and monitors on-the-job training programs; counsels and evaluates subordinates and determines their training requirements; prepares status reports and maintains administrative and maintenance files. **NOTE:** May have progressed to 33M40 from 33M30, 33P30, Electronic Warfare/Intercept Strategic Receiving Subsystems Repairer, or 33Q30, Electronic Warfare/Intercept Strategic Processing/Storage Subsystems Repairer.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in troubleshooting techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory and 3 in electronic shop practices (5/87).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in troubleshooting techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory, 3 in electronic shop practices, 3 in office procedures, and 3 in human relations (5/87).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in troubleshooting techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory, 3 in electronic shop practices, 3 in office procedures, and 3 in human relations. In the upper-division baccalaureate category, 3 semester hours in office management and 3 in personnel management (5/87).

MOS-33P-001

ELECTRONIC WARFARE/INTERCEPT STRATEGIC
RECEIVING SUBSYSTEMS REPAIRER
33P10
33P20
33P30

Exhibit Dates: 1/90–9/91. Effective 9/91, MOS 33P was discontinued, and its duties were incorporated into MOS 33Y, Strategic Systems Repairer.

Career Management Field: 33 (Electronic Warfare/Intercept Systems Maintenance).

Description

Summary: Supervises or performs preventive maintenance on receivers, direction finders, antenna control, multiplexers, demultiplexers, and other equipment associated with RF and receiving subsystems. **Skill Level 10:** Troubleshoots electronic warfare/intercept receiving equipment and support equipment down to the

component level, installs receiving equipment and support equipment according to manufacturers' specifications; performs tests using volt ohm meters, oscilloscopes, signal generators, spectrum analyzers, and other test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists in conducting on-the-job training and quality assurance inspections; performs advanced electrical and mechanical tests using wiring diagrams, signal flow charts, technical manuals, troubleshooting charts, and other diagnostic materials; supervises work performed by subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as maintenance team leader or assistant team leader; serves as quality assurance inspector and equipment calibration coordinator; manages, counsels, and evaluates subordinates; develops maintenance procedures; prepares and reviews technical reports; maintains a technical library; requisitions spare parts; maintains records; conducts on-the-job training.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in troubleshooting techniques (5/87).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in troubleshooting techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory and 3 in electronic shop practices (5/87).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in troubleshooting techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory, 3 in electronics shop practices, 3 in office procedures, and 3 in human relations (5/87).

MOS-33Q-001

ELECTRONIC WARFARE/INTERCEPT STRATEGIC
PROCESSING/STORAGE SUBSYSTEMS
REPAIRER
33Q10
33Q20
33Q30

Exhibit Dates: 1/90-9/91. Effective 9/91, MOS 33Q was discontinued, and its duties were incorporated into MOS 33Y, Strategic Systems Repairer.

Career Management Field: 33 (Electronic Warfare/Intercept Systems Maintenance).

Description

Summary: Supervises or performs maintenance on electronic warfare/intercept processing/storage subsystems, multiplexers, recorder-reproducers, oscillographs, control units, video amplifiers, power supplies, and other associated equipment. *Skill Level 10:* Uses voltmeters, ohmmeters, oscilloscopes, signal generators, power meters, spectrum analyzers, and other testing devices; conducts electrical and mechanical tests using wiring diagrams, signal flow charts, technical manuals, troubleshooting charts, and job performance aids; uses high-reliability soldering techniques; bench tests to ensure alignment; troubleshoots and repairs to the component level. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs harmonic, wow and flutter, and other

distortion tests and takes corrective action; tests analog and digital circuits to determine course of pulse, spectra, time phase and amplitude deterioration, frequency shifting and bandpass reduction/expansion; assists in conducting formal/informal on-the-job training; serves as quality assurance inspector and as assistant service school instructor. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the performance of unit, intermediate, and depot maintenance on electronic warfare/intercept equipment; manages, counsels, and evaluates subordinate personnel; maintains records; requisitions spare parts; conducts on-the-job training.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in troubleshooting techniques (5/87).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in troubleshooting techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory and 3 in electronic shop practices (5/87).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in troubleshooting techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory, 3 in electronics shop practices, 3 in office procedures, and 3 in human relations (5/87).

MOS-33R-001

AVIATION SYSTEMS REPAIRER
(Electronic Warfare/Intercept Aviation Systems Repairer)
33R10
33R20
33R30
33R40

Exhibit Dates: 1/90-Present.

Career Management Field: 33 (Electronic Warfare/Intercept Systems Maintenance).

Description

Summary: Repairs, supervises, or performs unit, intermediate, or depot maintenance on electronic warfare intercept, airborne systems, equipment, and assemblies. *Skill Level 10:* Performs maintenance on aviation equipment including wideband receivers, recorders, modulators, multiplexers, demodulators, antennas, monitors, and direction finding and positioning equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs maintenance on additional equipment, including various airborne and air-to-ground intercept, recording, countermeasure, and computer peripheral devices. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the maintenance on electronic warfare intercept airborne equipment; manages, counsels, and evaluates subordinates; requisitions spare parts; prepares and reviews technical reports; maintains technical library; conducts on-the-job training. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as maintenance team leader or foreman; prepares status reports and maintains administrative and maintenance files. **NOTE:** May have progressed to 33R40 from 33R30 or

33V30, Electronic Warfare/Intercept Aerial Sensor Repairer.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in troubleshooting techniques. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (5/87).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in troubleshooting techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory and 3 in electronics shop practices. (**NOTE:** This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (5/87).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in troubleshooting techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory, 3 in electronics shop practices, 3 in office procedures, and 3 in human relations (5/87).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in troubleshooting techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory, 3 in electronic shop practices, 3 in office procedures, and 3 in human relations. In the upper-division baccalaureate category, 3 semester hours in office management and 3 in personnel management (5/87).

MOS-33T-001

TACTICAL SYSTEMS REPAIRER
(Electronic Warfare/Intercept Tactical Systems Repairer)
33T10
33T20
33T30
33T40

Exhibit Dates: 1/90-Present.

Career Management Field: 33 (Electronic Warfare/Intercept Systems Maintenance).

Description

Summary: Repairs, supervises, or performs unit, intermediate, or depot maintenance on electronic warfare/intercept equipment and assemblies. *Skill Level 10:* Performs maintenance on equipment including HF, VHF, UHF, and MF receivers, narrowband recorder-reproducers, tactical antennas and controls, modulators and demodulators, multiplexers and demultiplexers, signal monitors, direction finding and electronic countermeasure equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs harmonic distortion and wow and flutter tests on tactical narrowband recorders; tests analog and digital circuits to determine the cause of pulse, spectrum, time phase and amplitude deterioration, frequency shifting, and bandpass reduction/expansion; assists in conducting formal and informal on-the-job training; provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the performance of maintenance activities; manages, counsels, and evaluates subordinates; maintains records; requisitions spare parts; conducts on-the-job training. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as maintenance team

leader or foreman; organizes and monitors performance of maintenance activities; prepares status reports; maintains administrative and maintenance files.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in troubleshooting techniques. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (5/87).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in troubleshooting techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory and 3 in electronics shop practices. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (5/87).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in troubleshooting techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory, 3 in electronics shop practices, 3 in office procedures, and 3 in human relations (5/87).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in troubleshooting techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory, 3 in electronics shop practices, 3 in office procedures, and 3 in human relations. In the upper-division baccalaureate category, 3 semester hours in office management and 3 in personnel management (5/87).

MOS-33V-001

ELECTRONIC WARFARE/INTERCEPT AERIAL SENSOR REPAIRER
33V10
33V20
33V30

Exhibit Dates: 1/90-12/93. Effective 12/93, MOS 33V was discontinued, and its duties were incorporated into MOS 33R, Aviation Systems Repairer.

Career Management Field: 33 (Electronic Warfare/Intercept Systems Maintenance).

Description

Summary: Repairs, supervises, or performs unit, intermediate, or depot maintenance on electronic warfare intercept airborne sensor systems, associated data links, and assemblies. **Skill Level 10:** Performs maintenance on aviation equipment including side-looking radars, signal processors, monitors, receiving-transmitting equipment, encoding and decoding devices, and aircraft annotation equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises and assists subordinates; repairs selected specialized equipment; performs technical inspections of sensor modules and assemblies. **Skill Level 30:** Able to perform the duties required for Skill Level 20; counsels subordinates; assigns, monitors, and inspects work; develops maintenance procedures; supervises installation of certain aerial sensor systems; supervises acquisition of parts; diagnoses unusual and complex malfunctions of aerial sensor systems and recommends modifications of sensor systems; maintains technical library; writes reports.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in troubleshooting techniques. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (5/87).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in troubleshooting techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory and 3 in electronics shop practices (5/87).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in troubleshooting techniques. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory, 3 in electronics shop practices, 3 in office procedures, and 3 in human relations (5/87).

MOS-33Y-001

STRATEGIC SYSTEMS REPAIRER
33Y10
33Y20
33Y30
33Y40

Exhibit Dates: 9/90-Present.

Career Management Field: 33 (Electronics Warfare/Intercept Systems Maintenance).

Description

Summary: Performs unit, intermediate, and depot maintenance on electronic communications systems consisting of high-frequency receivers, digital computer, digital and analog recorders, and computer peripherals. **Skill Level 10:** Troubleshoots and isolates equipment malfunctions to the module and component level using digital volt meters, oscilloscopes, signal generators, spectrum analyzers, and diagnostic software; installs and tests system components; performs preventive maintenance on system; solders to high-reliability standards; generates work orders. **Skill Level 20:** Able to perform the duties required for Skill Level 10; performs intermediate testing and alignment of RF receivers including wow, flutter, and harmonic distortion; performs advanced testing of computer systems including resolution of hardware-software conflicts; maintains and calibrates test equipment; serves as quality assurance inspector; supervises and conducts on-the-job training. **Skill Level 30:** Able to perform the duties required for Skill Level 20; performs advanced testing and troubleshooting of RF and computer equipment; analyzes recurring malfunctions and recommends equipment modifications; performs critical alignment and calibration of subsystems; serves as maintenance assistant team leader or team leader and quality assurance inspector; coordinates equipment calibration and testing; manages, counsels, and evaluates subordinates; develops maintenance procedures; prepares and reviews technical reports; maintains a technical library; requisitions spare parts; conducts on-the-job training. **Skill Level 40:** Able to perform the duties required for Skill Level 30; serves as maintenance team leader; assigns personnel to maintenance teams and supervises team activities; conducts and monitors on-the-job training programs; counsels and evaluates subordinates and determines their training requirements; prepares status reports and maintains administrative and maintenance

files; reviews and generates technical reports; determines maintenance budget requirements; controls preventive maintenance program; prepares and delivers maintenance briefings; performs acceptance inspections; supervises the installation of new equipment.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer systems and organization, 3 in computer systems troubleshooting and maintenance, 3 in electronic communications, and 3 in electronic systems troubleshooting and maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 9/90-9/91 only) (10/93).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer systems and organization, 6 in computer systems troubleshooting and maintenance, 3 in electronic communications, and 6 in electronic systems troubleshooting and maintenance. (NOTE: This recommendation for skill level 20 is valid for the dates 9/90-2/95 only) (10/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer systems and organization, 6 in computer systems troubleshooting and maintenance, 3 in electronic communications, 6 in electronic systems troubleshooting and maintenance, 3 in personnel supervision, and 3 in records and information management (10/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer systems and organization, 6 in computer systems troubleshooting and maintenance, 3 in electronic communications, 6 in electronic systems troubleshooting and maintenance, 3 in personnel supervision, and 3 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (10/93).

MOS-33Z-002

ELECTRONIC WARFARE/INTERCEPT SYSTEMS MAINTENANCE SUPERVISOR
33Z50

Exhibit Dates: 1/90-Present.

Career Management Field: 33 (Electronic Warfare/Intercept Systems Maintenance).

Description

Supervises unit, intermediate, and depot maintenance on all types of electronic warfare/intercept equipment; plans layout and design of maintenance and facilities; identifies training requirements and develops training plans; serves as liaison with staff command, site, and unit personnel; prepares technical evaluations, reports, and correspondence pertaining to maintenance operations. NOTE: May have progressed to 33Z50 from 33R40, Electronic Warfare/Intercept Aviation Systems Repairer; 33T40, Electronic Warfare/Intercept Tactical Systems Repairer; or 33M40, Electronic Warfare/Intercept Strategic Systems Analyst and Command and Control Subsystems Repairer.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in applied psychology. In the upper-division baccalaureate

category, 3 semester hours in technical writing, 3 in a management elective, 3 in industrial education, 3 in counseling, 3 for an education internship, and 3 for field experience in management (5/87).

MOS-35B-001

LAND COMBAT SUPPORT SYSTEM TEST SPECIALIST
35B10
35B20
35B30

Exhibit Dates: Pending Evaluation. 2/95–Present.

MOS-35C-001

SURVEILLANCE RADAR REPAIRER
35C10
35C20
35C30

Exhibit Dates: Pending Evaluation. 2/95–Present.

MOS-35E-001

RADIO/COMSEC REPAIRER
35E10
35E20
35E30

Exhibit Dates: Pending Evaluation. 2/95–Present.

MOS-35F-001

SPECIAL ELECTRONIC DEVICES REPAIRER
35F10
35F20
35F30

Exhibit Dates: Pending Evaluation. 2/95–Present.

MOS-35G-003

BIOMEDICAL EQUIPMENT SPECIALIST, BASIC
35G10
35G20

Exhibit Dates: 1/90–5/92.

Career Management Field: 91 (Medical), subfield 915 (Biomedical Equipment Repair).

Description

Summary: Performs routine maintenance on medical equipment. *Skill Level 10:* Performs routine maintenance and repair on electrical, analog, and digital electronic, mechanical, and optical equipment; repairs and installs mechanical medical equipment, including sterilizers, stills, anesthesia apparatus, resuscitators, dental operating units, operating tables and lamps, food carts, hospital beds, etc.; dismantles and cleans equipment; installs water, air, and steam lines; performs routine tests on medical equipment to determine leakage currents and calibration. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in DC and AC circuit fundamentals and 6 in theory of operation and troubleshooting medical equipment. In the lower-division baccalaureate/associate degree category, 3 semester hours in medical equipment maintenance and repair and 2 in shop practices. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90–9/91 only) (10/82).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in DC and AC circuit fundamentals and 6 in theory of operation and troubleshooting medical equipment. In the lower-division baccalaureate/associate degree category, 3 semester hours in medical equipment maintenance and repair and 2 in shop practices (10/82).

MOS-35G-004

MEDICAL EQUIPMENT REPAIRER, UNIT LEVEL
35G10
35G20

Exhibit Dates: 6/92–12/94. Effective 12/94, MOS 35G was discontinued, and its duties were transferred to MOS 91A.

Career Management Field: 91 (Medical).

Description

Summary: Performs routine maintenance, service, repair, and calibration on medical equipment; applies mechanical, electrical, electromechanical, pneumatic, hydraulic, solid state, linear and analog, digital, radiological, and optical principles. *Skill Level 10:* Must be able to unpack, inspect, inventory, assemble, clean, lubricate, calibrate, repair, and test all types of biomedical equipment, including defibrillators, patient monitoring systems, pulmonary equipment, electroencephalography equipment, diathermy systems, diathermy apparatus, spectrophotometers, ultrasonic therapy and treatment apparatus, dental operating units, anesthesia apparatus, resuscitators, operating tables and lamps, hospital beds, etc.; dismantles and cleans equipment; installs water, air, and steam lines; performs routine tests on medical equipment to determine leakage currents and calibrations. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; advises and assists equipment operators in the assembly and disassembly of field medical equipment; troubleshoots, performs, and supervises unit maintenance activities.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in DC circuits, 3 in solid state electronics, 3 in AC circuits, 3 in electronic instrumentation, 3 in mechanical and electromechanical controls, 3 in pneumatic and hydraulic controls, 3 in applications of sensors, 3 in digital principles, 3 in analog and linear circuit principles, 3 in electronic equipment diagnostics and repair, and 3 in personnel supervision (6/92).

MOS-35H-003

CALIBRATION SPECIALIST
35H10
35H20
35H30
35H40
35H50

Exhibit Dates: 1/90–9/91.

Career Management Field: 29 (Communications–Electronics Maintenance).

Description

Summary: Calibrates and repairs all common test, measuring, and diagnostic equipment, maintains all calibration standards and accessories; maintains electrical, electronic, pressure, vacuum, hydraulic, and mechanical measuring instruments. *Skill Level 10:* Calibrates and repairs test, measuring, and diagnostic equipment, including meters and other low-level systems, maintains calibration and maintenance records, assists with more advanced repair and calibration procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; performs cross-check of low-level calibration standards; maintains records applicable to these and other calibration and maintenance functions. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides direct supervision, quality control, technical support, and coordination of unit activities; supervises on-the-job training; supervises a calibration team and prepares its work schedule; calibrates using more sophisticated and accurate standards, including flow rate, viscosity, specific gravity, phase, sound-pressure level, irradiance, photometric, brightness, magnetic field strength, etc.; performs cross-checks of reference standards and maintains standard levels. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and provides on-the-job training to subordinates; maintains calibration files to provide historical, production, and scheduling information for control of operations; conducts liaison with supported units to schedule production advice on test, measuring, and diagnostic equipment; provides quality control by sample inspection against standards; previews correspondence and prepares interservice agreements relative to calibration support; establishes schedules; supervises the development and presentation of new equipment and technology training; may supervise four or more persons, or if duty position is Calibration Operations NCO, may supervise five or more calibration teams. *Skill Level 50:* Able to perform the duties required for Skill Level 40; as principal noncommissioned officer of a calibration facility, performs technical and administrative duties; plans, coordinates, and supervises training and operation activities; prepares correspondence; advises superiors on technical calibration matters; may supervise five or more calibration teams.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 2 in AC/DC circuits, 1 in digital circuits, 1 in solid state circuits, 1 in communications principles, 2 in instrumentation, 3 in troubleshooting techniques, 2 in physics, and 2 in mathematics (algebra and trigonometry) (5/79).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in digital circuits, 3 in solid-state circuits, 2 in communications principles, 4 in instrumentation, 6 in troubleshooting techniques, 2 in physics, 2 in mathematics (algebra and trigonometry), and 3 in microwave circuits (5/79).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in digital circuits, 3 in solid state circuits, 2 in communications principles, 5 in instrumentation, 6 in troubleshooting techniques, 2 in physics, 2 in mathematics (algebra and trigonometry), 3 in microwave circuits, 2 in human relations, 2 in personnel supervision, and 2 in maintenance management (5/79).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in digital circuits, 3 in solid state circuits, 2 in communications principles, 5 in instrumentation, 6 in troubleshooting techniques, 2 in physics, 2 in mathematics (algebra and trigonometry), 3 in microwave circuits, 3 in human relations, 3 in personnel supervision, and 2 in maintenance management. In the upper-division baccalaureate category, 3 semester hours for field experience in management; if the duty position was calibration operations NCO, 3 additional semester hours in management problems (5/79).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in AC/DC circuits, 3 in digital circuits, 3 in solid state circuits, 2 in communications principles, 5 in instrumentation, 6 in troubleshooting techniques, 2 in physics, 2 in mathematics (algebra and trigonometry), 3 in microwave circuits, 3 in human relations, 3 in personnel supervision, and 3 in maintenance management. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in management problems; if the duty position was calibration operations NCO, 3 additional semester hours in management problems (5/79).

MOS-35H-004

TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT
MAINTENANCE SUPPORT SPECIALIST

35H10
35H20
35H30
35H40
35H50

Exhibit Dates: 10/91-1/95.

Career Management Field: 35 (Electronic Maintenance and Calibration).

Description

Summary: Performs electronic and mechanical calibration and repair duties on all common test, measuring, and diagnostic equipment; maintains all calibration standards and accessories; maintains electrical, electronic, pressure, vacuum, hydraulic, fiber optic, and mechanical measuring instruments. **Skill Level 10:** Calibrates and repairs test, measuring, and diagnostic equipment including meters and other low-level systems; maintains calibration and maintenance records; assists with more advanced repair and calibration procedures. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides individual technical guidance to subordinates; performs cross-check of low-level calibration standards; maintains records applicable to these and other calibration

and maintenance functions. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides direct supervision, quality control, technical support, and coordination of unit activities; supervises on-the-job training; supervises a calibration team and prepares its work schedule; performs high-precision calibration using more sophisticated and accurate standards, including flow rate, viscosity, specific gravity, phase-sound pressure level, voltage, current, frequency, irradiance, photometric, brightness, magnetic field strength, etc.; performs cross-checks of reference standards and maintains standard level. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises and provides on-the-job training to subordinates; maintains calibration files to provide historical, production, and scheduling information for control of operations; conducts liaison with supported units to schedule production advice on test, measuring, and diagnostic equipment; provides quality control by sample inspection against standards; previews correspondence and prepares interservice agreements relative to calibration support; establishes schedules; supervises the development and presentation of new equipment and technology training; may supervise four or more persons, or if duty position is Calibration Operations NCO, may supervise five or more calibration teams. **NOTE:** May progress to 35H40 from 35H30 or 39B30, Automatic Test Equipment Operator/Maintainer. **Skill Level 50:** Able to perform the duties required for Skill Level 40; as principal noncommissioned officer of a calibration facility, performs technical and administrative duties; plans, coordinates, and supervises training and operation activities; prepares correspondence; advises superiors on technical calibration matters; may supervise five or more calibration teams. **NOTE:** May progress to 35H50 from 35H40 or 35Y40, Integrated Family or Test Equipment Operator/Maintainer.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic systems test and maintenance, 3 in electronic systems test and calibration, 3 in basic mechanical measurements laboratory, 3 in advanced electronics laboratory, 3 in solid state electronics, and 3 in personnel supervision (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems test and maintenance, 4 in electronic systems test and calibration, 3 in basic mechanical measurements laboratory, 3 in advanced electronics laboratory, 3 in solid state electronics, 3 in advanced mechanical measurements laboratory, 3 in microwave laboratory, 3 in digital principles, 3 in personnel supervision, 2 in records and information management, and 3 in maintenance management (9/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems test and maintenance, 4 in electronic systems test and calibration, 3 in basic mechanical measure-

ments laboratory, 3 in advanced electronics laboratory, 3 in solid state electronics, 3 in advanced mechanical measurements laboratory, 3 in microwave laboratory, 3 in digital principles, 3 in personnel supervision, 2 in records and information management, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (9/91).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 4 in electronic systems test and maintenance, 4 in electronic systems test and calibration, 3 in basic mechanical measurements laboratory, 3 in advanced electronics laboratory, 3 in solid state electronics, 3 in advanced mechanical measurements laboratory, 3 in microwave laboratory, 3 in digital principles, 3 in personnel supervision, 2 in records and information management, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (9/91).

MOS-35H-005

TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT
MAINTENANCE SUPPORT SPECIALIST

35H10
35H20
35H30
35H40

Exhibit Dates: Pending Evaluation. 2/95-Present.

MOS-35J-001

TELECOMMUNICATIONS TERMINAL DEVICE
REPAIRER

Exhibit Dates: Pending Evaluation. 2/95-Present.

MOS-35M-001

RADAR REPAIRER
35M10
35M20
35M30

Exhibit Dates: Pending Evaluation. 2/95-Present.

MOS-35N-001

WIRE SYSTEMS EQUIPMENT REPAIRER
35N10
35N20
35N30

Exhibit Dates: Pending Evaluation. 2/95-Present.

MOS-35U-003

BIOMEDICAL EQUIPMENT SPECIALIST, ADVANCED
35U20
35U30
35U40
35U50

Exhibit Dates: 1/90-5/92.

Career Management Field: 91 (Medical), subfield 915 (Biomedical Equipment Repair).

Description

Summary: Provides periodic scheduled maintenance and repairs all types of medical equipment; applies mechanical, hydraulic, high- and low-pressure gas and steam, electrical, electronic, solid state, digital, radiological, and optical principles or supervises biomedical equipment repair functions. **Skill Level 20:** Able to perform duties of Biomedical Equipment Specialist, Basic (35G10); provides periodic scheduled maintenance and repairs medical equipment; applies mechanical, hydraulic, high- and low-pressure gas and steam, electrical, electronic, solid state, digital, logic, radiological, and optical principles; develops sequence of operating events from schematic diagrams; unpacks, inspects, inventories, assembles, calibrates, installs, adjusts, cleans, lubricates, repairs, and tests all types of biomedical equipment, including electrocardiographs, electroencephalographs, patient monitoring systems, pulmonary equipment, diathermy apparatus, blood cell counters, spectrophotometers, ultrasonic therapy and treatment apparatus, heart-lung machines, radioisotope monitoring and measuring equipment, and X-ray systems with ancillary equipment, including tables, rapid film changers, dye contrast injection apparatus, automatic film processors, cinerography, closed circuit television, and image intensifiers; utilizes knowledge of electrical/electronic theory, including function of solid state devices, integrated circuits, servo systems, photoelectric cells, instrumentation and automation, digital principles, readout systems, and vacuum, cathode-ray, and X-ray tubes. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides technical guidance and supervision to subordinates; develops and establishes procedures for operation of biomedical equipment maintenance activity; establishes and maintains procedures to ensure effective preventive maintenance program; ensures that diagnostic and measuring equipment is calibrated in accordance with Army calibration program; determines personnel requirements; organizes work schedules; assigns duties, monitors personnel performance, and counsels subordinates; prepares evaluation reports; ensures adherence to standards of conduct, cleanliness, technical accuracy, and safety regulations in all areas of activity; prepares and conducts on-the-job training programs; advises and assists in administrative, fiscal, personnel, and supply matters; advises commander on specific medical systems including requirements for utilities and advantages and disadvantages of contract versus in-house maintenance; advises procurement personnel of functional and safety aspects of medical equipment and systems. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises organizational, direct, and general support maintenance of biomedical equipment; organizes and supervises inspection and maintenance teams. **Skill Level 50:** Able to perform the duties required for Skill Level 40; supervises medical equipment maintenance operations; writes, develops, and coordinates command-wide regulations and policies relating to logistical material maintenance programs; provides technical information and guidance to subordinate units; participates in review and approval of subordinate unit submissions; evaluates unit maintenance programs and institutes methods for upgrading such programs; monitors utilization of medical equip-

ment maintenance personnel and associated material assets of subordinate units, determines need for and schedules personnel for attendance at specialized manufacturers' courses; performs as team chief for medical maintenance assistance and instruction teams.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in technical mathematics, 3 in DC circuits and laboratory, 3 in AC circuits and laboratory, 3 in physics, 3 in transistor laboratory and theory, 3 in electronic circuit theory, 3 in instrumentation, 1 in medical equipment safety practices, and 3 in electronics shop practices. In the lower-division baccalaureate/associate degree category, 1 semester hour in medical terminology, 3 in AC/DC circuits theory and laboratory, 1 in electronics laboratory, 3 in electrical/electronic construction methods, 1 in electrical safety, 3 in instrumentation, 2 in digital theory, 3 in X-ray equipment repair, and 3 in medical equipment repair (10/82).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in technical mathematics, 3 in DC circuits and laboratory, 3 in AC circuits and laboratory, 3 in physics, 3 in transistor laboratory and theory, 3 in electronic circuit theory, 3 in instrumentation, 1 in medical equipment safety practices, 3 in electronics shop practices, 6 in X-ray equipment repair, and 6 in medical equipment repair. In the lower-division baccalaureate/associate degree category, 1 semester hour in medical terminology, 3 in AC/DC circuit theory and laboratory, 1 in electronics laboratory, 3 in electrical/electronic construction methods, 1 in electrical safety, 3 in instrumentation, 2 in digital theory, 3 in X-ray equipment repair, 3 in medical equipment repair, 3 in personnel supervision, 2 in human relations, and 2 in technical writing (10/82).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in technical mathematics, 3 in DC circuits and laboratory, 3 in AC circuits and laboratory, 3 in physics, 3 in transistor laboratory and theory, 3 in electronic circuit theory, 3 in instrumentation, 1 in medical equipment safety practices, 3 in electronics shop practices, 6 in X-ray equipment repair, and 6 in medical equipment repair. In the lower-division baccalaureate/associate degree category, 1 semester hour in medical terminology, 3 in AC/DC circuit theory and laboratory, 1 in electronics laboratory, 3 in electrical/electronic construction methods, 1 in electrical safety, 3 in instrumentation, 2 in digital theory, 3 in X-ray equipment repair, 3 in medical equipment repair, 3 in personnel supervision, 2 in human relations, 2 in technical writing, 3 for field experience in management, and 3 in record keeping. In the upper-division baccalaureate category, 3 semester hours in industrial psychology, 3 in introduction to management, and 3 in personnel management (10/82).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in technical mathematics, 3 in DC circuits and laboratory, 3 in AC circuits and laboratory, 3 in physics, 3 in transistor laboratory and theory, 3 in electronic circuit theory, 3 in instrumentation, 1 in medical equipment safety practices, 3 in electronics shop practices, 6 in X-ray equipment repair, and 6 in medical equipment repair. In the lower-division baccala-

laureate/associate degree category, 1 semester hour in medical terminology, 3 in AC/DC circuit theory and laboratory, 1 in electronics laboratory, 3 in electrical/electronic construction methods, 1 in electrical safety, 3 in instrumentation, 2 in digital theory, 3 in X-ray equipment repair, 3 in medical equipment repair, 3 in personnel supervision, 2 in human relations, 3 in technical writing, 3 for field experience in management, 3 in record keeping, and 3 in public speaking. In the upper-division baccalaureate category, 3 semester hours in industrial psychology, 3 in introduction to management, 6 in personnel management, and 6 in industrial arts education (electronics) (10/82).

MOS-35U-004**MEDICAL EQUIPMENT REPAIRER, ADVANCED**

35U30

35U40

35U50

Exhibit Dates: 6/92-12/94. (Effective 12/94, MOS 35U was discontinued, and its duties were transferred to MOS 91A.).

Career Management Field: 91 (Medical).

Description

Summary: Provides periodic scheduled maintenance and repairs all types of medical equipment; applies mechanical, hydraulic, high- and low-pressure gas and steam, electrical, electronic, solid state, digital, logic, radiological, and optical principles; supervises biomedical equipment repair functions. **Skill Level 30:** Able to perform duties of Medical Equipment Repairer, Unit Level (35G20); applies basic knowledge of microprocessors, analog-to-digital conversion, digital-to-analog conversion, and diagnostics of microprocessor circuits; develops and establishes procedures for operation of biomedical equipment maintenance activity; establishes and maintains procedures to ensure effective preventive maintenance program; ensures that diagnostic and measuring equipment is calibrated in accordance with Army calibration program; determines personnel requirements, organizes work schedules, assigns duties, monitors personnel performance, and counsels subordinates; prepares evaluation reports; ensures adherence to standards of conduct, cleanliness, technical accuracy, and safety regulations in all areas of activity; advises and assists in administrative, fiscal, personnel, and supply matters; advises commander on specific medical systems including requirements for utilities and advantages and disadvantages of contract versus in-house maintenance; advises procurement personnel of functional and safety aspects of medical equipment and systems. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises organizational, direct, and general support maintenance of biomedical equipment; organizes and supervises inspection and maintenance teams. **Skill Level 50:** Able to perform the duties required for Skill Level 40; supervises medical equipment maintenance operations; writes, develops, and coordinates command-wide regulations and policies related to logistical material maintenance programs; provides technical information and guidance to subordinate units; participates in review and approval of subordinate unit submissions; evaluates unit maintenance programs and institutes methods for upgrading such programs; monitors utilization of medical equipment maintenance

nance personnel and associated material assets of subordinate units; determines need for and schedules personnel for attendance at specialized manufacturers' courses; performs as team chief for medical maintenance assistance and instruction teams.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in DC circuits, 3 in solid state electronics, 3 in AC circuits, 3 in electronic instrumentation, 3 in mechanical and electromechanical controls, 3 in pneumatic and hydraulic controls, 3 in applications of sensors, 3 in digital principles, 3 in analog and linear circuit principles, 3 in microprocessors, 3 in personnel supervision, and 2 in records and information management (6/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in DC circuits, 3 in solid state electronics, 3 in AC circuits, 3 in electronic instrumentation, 3 in mechanical and electromechanical controls, 3 in pneumatic and hydraulic controls, 3 in applications of sensors, 3 in digital principles, 3 in analog and linear circuit principles, 3 in microprocessors, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (6/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in DC circuits, 3 in solid state electronics, 3 in AC circuits, 3 in electronic instrumentation, 3 in mechanical and electromechanical controls, 3 in pneumatic and hydraulic controls, 3 in applications of sensors, 3 in digital principles, 3 in analog and linear circuit principles, 3 in microprocessors, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (6/92).

MOS-35W-001

ELECTRONIC MAINTENANCE CHIEF

35W40

35W50

Exhibit Dates: Pending Evaluation. 2/95–Present.

MOS-35Y-001

INTEGRATED FAMILY OF TEST EQUIPMENT

OPERATOR/MAINTAINER

35Y10

35Y20

35Y30

35Y40

35Y50

Exhibit Dates: 9/90–Present.

Description

Summary: Operates, performs, and supervises maintenance support units. *Skill Level 10:* Uses automated test equipment to troubleshoot equipment to the component level; repairs by adjusting, aligning, and replacing defective components. *Skill Level 20:* Able to perform the

duties required for Skill Level 10; provides technical assistance to subordinates; keeps maintenance and supply records and forms; installs equipment modifications. *Skill Level 30:* Able to perform the duties required for Skill Level 20; establishes work load, work schedules, and priorities; assigns duties to subordinates; is responsible for quality control inspections; evaluates and counsels subordinates; initiates and maintains forms and records; prepares and reviews administrative reports; organizes and conducts on-the-job training programs; prepares maintenance reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises calibration of system-associated electronic equipment; implements quality control measures; serves as maintenance quality assurance and quality control inspector; establishes and maintains maintenance records. *Skill Level 50:* Able to perform the duties required for Skill Level 40; plans, coordinates, and supervises activities pertaining to training and technical operation of unit; interprets and supervises execution of policy; provides liaison to support staff and command.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in DC circuits, 2 in AC circuits, and 3 in electronic systems troubleshooting and maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (11/95).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in DC circuits, 2 in AC circuits, 3 in electronic systems troubleshooting and maintenance, and 2 in record keeping. (NOTE: This recommendation for skill level 20 is valid for the dates 9/90-2/95 only) (11/95).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in DC circuits, 2 in AC circuits, 3 in electronic systems troubleshooting and maintenance, 2 in record keeping, and 3 in personnel supervision (11/95).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in DC circuits, 2 in AC circuits, 3 in electronic systems troubleshooting and maintenance, 2 in record keeping, 3 in maintenance management, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (11/95).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 2 semester hours in DC circuits, 2 in AC circuits, 3 in electronic systems troubleshooting and maintenance, 2 in record keeping, 3 in maintenance management, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in human resource management, and 3 in management problems (11/95).

MOS-35Z-001

SENIOR ELECTRONICS MAINTENANCE CHIEF

35Z50

Exhibit Dates: Pending Evaluation. 2/95–Present.

MOS-36L-003

TRANSPORTABLE AUTOMATIC SWITCHING SYSTEMS

OPERATOR/MAINTAINER

36L10

36L20

36L30

Exhibit Dates: 1/90–6/95. Effective 6/95, MOS 36L was discontinued, and its duties were incorporated into MOS's 31F, Network Switching Systems Operator/Maintainer and 74G, Telecommunications Computer Operator-Maintainer.

Career Management Field: 31 (Communications-Electronics Operations).

Description

Summary: Supervises, installs, operates, and performs maintenance on transportable automatic circuit switches and central office equipment and installed communication security devices; performs preventive maintenance on vehicles and power generators. *Skill Level 10:* Installs, initializes, and performs maintenance on automatic switching systems, automatic message switching central systems, and ancillary equipment; uses specialized test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical assistance and guidance regarding installation and operation; performs off-line adjustments of the equipment; maintains maintenance and repair records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns specific duties to subordinates; establishes work load, work schedules, and priorities; responsible for quality control inspections; evaluates and counsels subordinates; provides technical assistance to subordinates; maintains technical library; initiates and maintains forms and records; prepares and reviews administrative reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics and 3 in electronic troubleshooting and repair. If ASI was J7, WHCA Console Control Operations, additional credit as follows: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 5 in electronic troubleshooting and repair, and 2 in record keeping. If ASI was J7, WHCA Console Control Operations, additional credit as follows: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 5 in electronic troubleshooting and repair, 2 in record keeping, 3 in principles of supervision, and 3 in maintenance management. If ASI was J7, WHCA Console Control Operations, additional credit as follows: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks (7/87).

MOS-36M-001**WIRE SYSTEMS OPERATOR**

36M10
36M20
36M30

Exhibit Dates: 1/90-4/92. Effective 4/92, MOS 36M was discontinued, and its duties were incorporated into MOS 31F, Electronic Switching Systems Operator

Career Management Field: 31 (Communications-Electronics Operation).

Description

Summary: Installs, operates, maintains, and supervises manual, semiautomatic and automatic switchboards, systems, telephone central offices, and auxiliary equipment. *Skill Level 10:* Installs, programs, initiates, operates, and performs operator and organizational maintenance on switchboards, telephone central offices, and assigned equipment; makes appropriate message log entries and uses route diagrams to handle proper switching procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises the installation, operation, and maintenance of switchboards, telephone central offices, assigned equipment, vehicles, and power generation equipment; trains and advises subordinates on assigned duties; monitors operator proficiency, responsiveness, cooperation, tact, and voice discipline; maintains station logs. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises, performs administrative functions, and coordinates the installation, operation, and maintenance performed by subordinates; prepares work schedules and coordinates overall activities; conducts training and coordinates all phases of switchboard communications activities within the unit.

Recommendation, Skill Level 10

Credit is not recommended because of the limited or specialized nature of the skills, competencies, and knowledge. If ASI was J7, WHCA Console Control Operations, credit as follows: In the lower-division baccalaureate/associate degree category, 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only.) (2/84).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision. If ASI was J7, WHCA Console Control Operations, additional credit as follows: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks (2/84).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 in principles of management. If ASI was J7, WHCA Console Control Operations, additional credit as follows: 1 semester hour in computer literacy, 2 in files management, and 3 in introduction to voice communications networks (2/84).

MOS-37F-001**PSYCHOLOGICAL OPERATIONS SPECIALIST**

37F10
37F20
37F30
37F40
37F50

Exhibit Dates: 9/90-Present

Career Management Field: 37 (Psychological Operations).

Description

Summary: Supervises, coordinates, and participates in analysis, planning, production, and dissemination of tactical, strategic, and consolidated psychological operations (PSYOP). *Skill Level 10:* Assists in collecting and reporting PSYOP-related information; assists in processing information into intelligence to support PSYOP; assists in identifying intelligence collection requirements for PSYOP support; assists in evaluating and analyzing current intelligence and PSYOP studies and estimates to determine PSYOP targets; assists in establishment and maintenance of situation maps to provide current intelligence/PSYOP information and identification, disposition, and movement of enemy forces; assists in the design of PSYOP products; assists in the development and administration of surveys to evaluate the effects of planned and executed products; operates PSYOP dissemination equipment and assists in the delivery of PSYOP products; assists in the packaging of PSYOP products for delivery by various means; maintains journals, status boards, visual displays, charts, and graphs required to manage PSYOP; either manually or using automatic data processing equipment, prepares, stores, and retrieves information on PSYOP-related intelligence, plans, campaigns, and products; assists and performs intelligence functions as required; maintains and operates organizational communications equipment, generators, and organic PSYOP production and dissemination team equipment; assists in establishing and maintaining systematic cross-referenced PSYOP records and files; safeguards classified information. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; coordinates resource requirements for the development, production, and dissemination of PSYOP products; assists in the integration of PSYOP planning in support of conventional, special operations, and deception planning; develops and administers surveys to evaluate the effectiveness of PSYOP products; assists in determining the appropriate mix of media, relative to available assets, to disseminate PSYOP products; analyzes current intelligence holdings to identify intelligence gaps and subsequent intelligence collection requirements to support PSYOP; assists in identifying psychological vulnerability and susceptibility of PSYOP targets; assists in evaluating translations of captured enemy documents and reports of interrogations; assists in the analysis of enemy propaganda and other foreign media; informs superiors of information of immediate tactical PSYOP value; packages PSYOP products for delivery by various means; identifies and maintains information on the availability of products and delivery means; establishes and maintains reference files of translated material. *Skill Level 30:* Able to perform the duties required for Skill

Level 20; supervises receipt, analysis, and storage of PSYOP related intelligence information; coordinates PSYOP intelligence collection requirements with supported command and higher headquarters; spot-checks analyses performed by subordinates; plans and advises on PSYOP in direct and general support of operational forces; plans and implements PSYOP campaigns; assists in planning, identification, mobilization, and deployment of PSYOP resources; supervises propaganda writers, broadcast specialists, journalists, and illustrators to develop and produce PSYOP products; supervises PSYOP dissemination and delivery sections and teams; determines dissemination requirements for PSYOP products; assists in the conduct of liaison with the supported command; advises supported commands on psychological considerations for planning operations; provides guidance and training for subordinates; assists in preparing and conducting PSYOP training programs; analyzes enemy propaganda. *Skill Level 40:* Able to perform the duties required for Skill Level 30; plans and organizes work schedule and assigns tasks in support of tactical or strategic PSYOP missions; assists in supervision of the propaganda development and tactical operations centers; conducts general PSYOP training programs for the command; supervises planning and dissemination of PSYOP products; controls the execution of PSYOP campaigns; monitors preparation and production of PSYOP products and acquisition of resources necessary to support implementation of PSYOP campaigns; conducts liaison with supported commands; supervises intelligence analysts, interpreters, interrogators, and translators attached to PSYOP units. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises and provides technical guidance to subordinates; provides liaison to supported staff and commands; assists PSYOP commanders and staff officers in planning, organizing, directing, supervising, training, and coordinating activities pertaining to PSYOP at all levels of command.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in technical writing, 1 in record keeping, and 1 in audiovisual technology. (NOTE: This recommendation for skill level 10 is valid for the dates 9/90-9/91 only.) (12/88).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in technical writing, 1 in record keeping, 2 in audiovisual technology, 2 in records management, 1 in oral communication, and 2 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 9/90-2/95 only.) (12/88).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in technical writing, 1 in record keeping, 2 in audiovisual technology, 2 in records management, 2 in oral communication, 3 in personnel supervision, and 3 in business organization and management (12/88).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in technical writing, 1 in record keeping, 2 in audiovisual technology, 2 in records management, 2 in oral

communication, 3 in personnel supervision, and 3 in business organization and management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in principles of management (12/88).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 2 semester hours in technical writing, 1 in record keeping, 2 in audiovisual technology, 2 in records management, 2 in oral communication, 3 in personnel supervision, and 3 in business organization and management. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in principles of management, and 3 in management problems (12/88).

MOS-38A-001

CIVIL AFFAIRS SPECIALIST (RESERVE COMPONENTS)

38A10

38A20

38A30

38A40

38A50

Exhibit Dates: 8/91–Present.

Career Management Field: 38 (Public Affairs).

Description

Summary: Supervises, researches, coordinates, conducts, and participates in analysis, planning, and production of civil affairs documents and actions. *Skill Level 10:* Maintains journals, status boards, and visual display charts and graphs; assists in the following activities: preparing required surveys; restoring government operations and services normally provided by the host nation; establishing programs to benefit the local population; locating and acquiring local resources needed for US military operations; coordinating civilian and military use of public communications; coordinating public works, utilities, and transportation operations in support of the civil affairs mission; coordinating the resettlement of dislocated civilians; updating area studies; researching the commander's legal and moral obligations concerning the treatment of the indigenous population; coordinating the consolidation of activities with psychological operations; establishing and maintaining systematic cross-referenced civil affairs records and files; safeguarding classified information. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical training and guidance to subordinates; assists in coordinating the integration of civil affairs planning in support of conventional and special operations forces and in the analysis of a foreign nation's organizational lines of authority and political power structure; coordinates treatment of noncombatants and establishment of emergency aid station; prepares facts for dissemination by radio and television and conducts research for troop information programs; identifies agencies available to support public communication mission; prepares communication reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20, coordinates support of foreign national agencies or host nation for US military operations; provides guidance in assessing government agencies' resources and assists in coordinating the restoration of government functions; assists in analysis of existing treaties and agreements with foreign nations; assists in

preparing plans for the security of sensitive foreign nation facilities; supervises the gathering of data on existing health problems in areas of operation and analyzes basic needs of the civilian population; conducts economic surveys; determines local civil defense requirements; coordinates the distribution of international relief supplies and identifies natural resources available within the civilian community; supervises the preparation of reports for the arts, monuments, and archives team; assists in the restoration of cultural structures; identifies civil information resources and supervises the preparation of reports; identifies legal obligations concerning public and civilian property and facilities. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises, organizes, and conducts civil affairs training; supervises preparation and maintenance of surveys, journals, status boards, charts, reports, and files; supervises the Civil Military Operations Center, coordinating work schedules and assigning tasks; conducts liaison with support commands; supervises civil affairs message center and provides communication security. *Skill Level 50:* Able to perform the duties required for Skill Level 40; provides liaison with supported staff and commands and foreign or host nation support; assists civil affairs commander and staff officer in planning, organizing, directing, supervising, training, and coordinating activities related to civil affairs at all levels of command.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in cross-cultural communication. (NOTE: This recommendation for skill level 10 is valid for the dates 8/91-9/91 only) (12/92).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in cross-cultural communications, 3 in area studies, and 3 in political science. (NOTE: This recommendation for skill level 20 is valid for the dates 8/91-2/95 only) (12/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in cross-cultural communications, 3 in area studies, 3 in political science, and 3 in personnel supervision (12/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in cross-cultural communications, 3 in area studies, 3 in political science, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in organizational management (12/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in cross-cultural communications, 3 in area studies, 3 in political science, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (12/92).

MOS-39B-001

AUTOMATIC TEST EQUIPMENT OPERATOR/

MAINTAINER

39B10

39B20

39B30

Exhibit Dates: 1/90–Present.

Career Management Field: 29 (Communications–Electronics Maintenance).

Description

Summary: Operates, maintains, and supervises maintenance on automatic test equipment. *Skill Level 10:* Operates automatic test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; maintains automatic test equipment; uses knowledge of digital electronics, microprocessors, and computer systems to troubleshoot equipment; uses oscilloscopes, meters, signal generators, and logic probes to locate faults; keeps records on maintenance procedures. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns specific duties to subordinates; responsible for quality control inspections; evaluates and counsels subordinates; provides technical assistance to subordinates; maintains technical library; initiates and maintains forms and records; responsible for records pertaining to repair parts; prepares and reviews administrative reports.

Recommendation, Skill Level 10

Credit is not recommended because the skills, competencies, and knowledge are uniquely military in nature (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 5 in electronic troubleshooting and repair, 3 in digital electronics, 3 in microprocessors, 3 in computer systems repair, and 2 in record keeping. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 5 in electronic troubleshooting and repair, 3 in digital electronics, 3 in microprocessors, 3 in computer systems repair, 2 in record keeping, 3 in principles of supervision, and 3 in maintenance management (7/87).

MOS-39C-001

TARGET ACQUISITION/SURVEILLANCE RADAR

REPAIRER

39C10

39C20

39C30

Exhibit Dates: 1/90–6/95. Effective 6/95, MOS 39C was discontinued, and its duties were incorporated into MOS's 35C, Surveillance Radar Repairer and 35M, Radar Repairer.

Career Management Field: 29 (Communications Electronics Maintenance).

Description

Summary: Performs or supervises maintenance on target acquisition and ground level surveillance radars and associated equipment. *Skill Level 10:* Uses oscilloscopes and multimeters to troubleshoot equipment to the component level; repairs equipment by adjusting, aligning, and replacing defective components. *Skill Level 20:* Able to perform the duties

required for Skill Level 10, performs complex maintenance tasks, provides technical assistance to subordinates, keeps maintenance records and forms. *Skill Level 30:* Able to perform the duties required for Skill Level 20, assigns duties to subordinates; establishes work load, work schedules, and priorities; responsible for quality control inspections, evaluates and counsels subordinates; maintains technical library; initiates and maintains forms and records; responsible for records pertaining to repair parts; prepares and reviews administrative reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics and 2 in electronic troubleshooting and repair. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 4 in electronic troubleshooting and repair, and 2 in record keeping. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 4 in electronic troubleshooting and repair, 2 in record keeping, 3 in principles of supervision, and 3 in maintenance management (7/87).

MOS-39D-001

DECENTRALIZED AUTOMATED SERVICE SUPPORT
SYSTEM (DAS3) COMPUTER SYSTEMS
REPAIRER
39D10
39D20
39D30

Exhibit Dates: 1/90-6/94. Effective 6/94, MOS 39D was discontinued, and its duties were incorporated into MOS 39G, Automated Communications Computer Systems Repairer.

Career Management Field: 29 (Communications Electronics Maintenance).

Description

Summary: Supervises or performs maintenance on a military version of a commercial data processing computer. *Skill Level 10:* Working under direct supervision, inspects, adjusts, and repairs computer system components including central processing unit, disk drives, tape drives, video terminals, printers, modems, and card readers/punches; uses vendor-supplied diagnostic software to localize system malfunctions; uses vendor-supplied documentation and test equipment to repair to the board and component level; uses standard electronic test and measurement equipment to troubleshoot and repair equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and provides on-the-job training to subordinates; manages inventory control. *Skill Level 30:* Able to perform the duties required for Skill Level 20; prepares, reviews and consolidates technical and administrative reports; maintains files, records, and technical library; assigns duties; establishes work load, work schedules, and repair priorities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in DC circuits, 1 in AC circuits, 2 in digital principles, and 3 in computer systems troubleshooting and maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/88).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour in DC circuits, 1 in AC circuits, 2 in digital principles, and 6 in computer systems troubleshooting and maintenance (6/88).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 1 semester hour in DC circuits, 1 in AC circuits, 2 in digital principles, 6 in computer systems troubleshooting and maintenance, 3 in record keeping, 3 in principles of supervision, and 2 in maintenance management (6/88).

MOS-39E-001

SPECIAL ELECTRONIC DEVICES REPAIRER
39E10
39E20
39E30

Exhibit Dates: 1/90-6/95. Effective 6/95, MOS 39E was discontinued and its duties were incorporated into MOS 35F, Special Electronic Devices Repairer.

Career Management Field: 29 (Communications Electronics Maintenance).

Description

Summary: Supervises or performs maintenance on specialized military combat equipment such as night vision, threat detection, and mine detection equipment; uses schematic diagrams and basic electronic troubleshooting skills in identifying and correcting malfunctions to the component level; updates maintenance manuals, records, and supplies. *Skill Level 10:* Working under direct supervision, inspects, adjusts, and repairs electronic surveillance, measurement, vision, and detection equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; assists in solving unique problems found in a wide range of equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; prepares, reviews, and consolidates technical and administrative reports and requests; maintains files and records; assigns duties; establishes work load, work schedules, and repair priorities; conducts on-the-job training.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in AC circuits, 1 in DC circuits, 3 in basic electronics laboratory, and 3 in electronic systems troubleshooting and maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/88).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour in AC circuits, 1 in DC circuits, 3 in basic electronics laboratory, and 6 in electronic systems troubleshooting and maintenance. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (6/88).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 1 semester hour in AC circuits, 1 in DC circuits, 3 in basic electronics laboratory, 6 in electronic systems troubleshooting and maintenance, 3 in record keeping, 3 in principles of supervision, and 2 in maintenance management (6/88).

MOS-39G-001

AUTOMATED COMMUNICATIONS COMPUTER
SYSTEMS REPAIRER
39G10
39G20
39G30

Exhibit Dates: 1/90-1/94.

Career Management Field: 29 (Signal Maintenance).

Description

Summary: Performs maintenance and repair on computer systems (mainframes, minicomputers, and microcomputers) and related peripheral equipment, including tape and disk drives, printers, monitors, data/voice I/O equipment and measurement and test equipment; performs troubleshooting techniques, including visual inspections, diagnostics, the use of built-in test equipment, and standard laboratory equipment, such as oscilloscopes, logic probes, multimeters, logic analyzers, and time domain reflectometers. *Skill Level 10:* Performs repairs to the board level; may also perform component-level repair; follows written procedures, schematics, and assembly language listings in troubleshooting procedures and diagnostics; performs modifications; repairs cables; requests parts; maintains service records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; tests repaired or modified equipment for compliance with specifications; requests logistical support; prepares and maintains technical and maintenance management records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; establishes work loads, work schedules, and repair priorities; performs and supervises quality inspections; establishes and maintains on-the-job training programs; reviews technical and maintenance management reports; provides technical assistance to lower level maintenance and repair activities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in digital fundamentals, 3 in electronic systems troubleshooting and maintenance, and 3 in solid state electronics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/90).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in digital fundamentals, 3 in electronic systems troubleshooting and maintenance, 3 in solid state electronics, 3 in computer systems and organization, and 3 in computer systems troubleshooting and maintenance (6/90).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in digital fundamentals, 3 in electronic systems troubleshooting and maintenance, 3 in solid state electronics, 3 in computer systems and organi-

zation, 3 in computer systems troubleshooting and maintenance, 3 in principles of supervision, and 3 in maintenance management (6/90).

MOS-39G-002

AUTOMATED COMMUNICATIONS COMPUTER
SYSTEM REPAIRER

39G10
39G20
39G30
39G40

Exhibit Dates: Pending Evaluation. 2/94-Present.

MOS-39L-001

FIELD ARTILLERY DIGITAL SYSTEMS REPAIRER

39L10
39L20
39L30

Exhibit Dates: 1/90-4/92. Effective 4/92, MOS 39L was discontinued, and its duties were incorporated into MOS 29J, Telecommunications Terminal Device Repairer.

Career Management Field: 29 (Signal Maintenance).

Description

Summary: Performs and supervises intermediate maintenance on gun, rocket and missile fire control, directional, and digital computer systems; meteorological computers; motor fire control calculators; remotely piloted vehicle control stations; and peripheral equipment. **Skill Level 10:** Operates and performs intermediate maintenance on digital fire control systems and peripheral support equipment; fault detection and correction is at the board level. **Skill Level 20:** Able to perform the duties required for Skill Level 10; uses knowledge of digital electronics and computer system concepts to isolate and correct complex problems; keeps records on maintenance procedures; supervises subordinates; conducts on-the-job training; oversees installation of modifications on equipment; plans and recommends establishment of procedures for receipt, storage, inspection, testing, and repair of components. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises the operation and maintenance performed by subordinates; prepares work schedules and coordinates overall activities; conducts training and counseling sessions.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/89).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance, 3 in personnel supervision, and 3 in maintenance management (6/89).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance, 3 in principles of supervision, 3 in maintenance management, and 3 in communication skills (oral and written) (6/89).

MOS-39T-001

TACTICAL COMPUTER SYSTEMS REPAIRER

39T10
39T20
39T30

Exhibit Dates: 1/90-3/90. Effective 3/90, MOS 39T was discontinued.

Career Management Field: 29 (Communications Electronics Maintenance).

Description

Summary: Supervises or performs maintenance on a military version of a commercial desktop data processing microcomputer. **Skill Level 10:** Working under direct supervision, inspects, adjusts, and repairs computer system components including CPU, hard disk drives, tape drives, video terminals, printers, and modems; uses vendor-supplied diagnostic software to localize system malfunctions. **Skill Level 20:** Able to perform the duties required for Skill Level 10; has a basic knowledge of systems software and related utilities. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises maintenance activities; prepares, reviews, and consolidates technical and administrative reports; maintains files, records, and technical library; assigns duties; establishes work load, schedules, and repair priorities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in DC circuits, 1 in AC circuits, 2 in digital principles, and 3 in computer systems troubleshooting and maintenance (6/88).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour in DC circuits, 1 in AC circuits, 2 in digital principles, 6 in computer systems troubleshooting and maintenance, and 3 in computer systems and organization (6/88).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 1 semester hour in DC circuits, 1 in AC circuits, 2 in digital principles, 6 in computer systems troubleshooting and maintenance, 3 in computer systems and organization, 2 in maintenance management, 3 in record keeping, and 3 in principles of supervision (6/88).

MOS-39V-001

COMPUTERIZED SYSTEMS MAINTENANCE CHIEF
39V40

Exhibit Dates: 1/90-6/94. Effective 6/94, MOS 39V was discontinued and its duties were incorporated into MOS 39G, Automated Communications Computer Systems Repairer.

Career Management Field: 29 (Signal Maintenance).

Description

Supervises and manages direct and general support maintenance of computerized systems, such as field artillery digital and tactical fire direction systems and automated communications computer systems; determines requirements and assigns duties; coordinates activities involving installation and maintenance of minicomputers, peripherals, and test and measuring equipment; prepares, reviews, and consolidates technical reports; implements standard operating

procedures; organizes and conducts on-the-job training; instructs and counsels subordinates; performs liaison with staff, operations, and maintenance personnel; determines effectiveness of performance to meet work load standards; reads, interprets, and explains complex concepts, specifications circuits, schematic and wiring diagrams, and minicomputer and mainframe organization. NOTE: May have progressed to 39V40 from 39D30 (Decentralized Automated Service Support System Computer Systems Repairer), 39G30 (Automated Communications Computer Systems Repairer), 39B30 (Automatic Test Equipment Operator/Maintainer), or 39Y30 (Field Artillery Tactical Fire Direction Systems Repairer).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer systems and organization, 3 in principles of supervision, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (6/90).

MOS-39W-001

RADAR/SPECIAL ELECTRONIC DEVICES
MAINTENANCE CHIEF
39W40

Exhibit Dates: 1/90-3/91. Effective 3/91, MOS 39W was discontinued, and its duties were incorporated into MOS 29W, Communications Maintenance Support Chief.

Career Management Field: 29 (Signal Maintenance).

Description

Supervises electronic maintenance shop operations by interpreting daily production reports and visual display loads of equipment in the shop; determines work priorities, parts needs, test equipment status, and personnel qualifications; assists subordinates in troubleshooting equipment; coordinates installation of new equipment; prepares and maintains records associated with planned maintenance programs; prepares and maintains support stock lists; determines causes of and reports unusual maintenance failures; organizes and conducts formal and on-the-job training for shop personnel. NOTE: May have progressed to 39W40 from 39C30 (Target Acquisition/Surveillance Radar Repairer) or 39E30 (Special Electronic Devices Repairer).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (6/90).

MOS-39X-001

ELECTRONICS EQUIPMENT MAINTENANCE CHIEF
39X50

Exhibit Dates: 1/90-3/91. Effective 3/91, MOS 39X was discontinued, and its duties were incorporated into MOS 29Z, Electronics Maintenance Chief.

Career Management Field: 29 (Signal Maintenance).

Description

Supervises the electronic maintenance mission of radar/special electronic devices, automatic data processing, and automatic test equipment facility; determines work priorities and requirements; assigns and coordinates activities of shop personnel; applies policies and procedures for facility/unit/station management; prepares, maintains, and uses maintenance records and reports associated with routine and planned maintenance programs; plans and coordinates training in communication, operations procedures, and maintenance programs; assists staff in continuous appraisal of electronic equipment. NOTE: May have progressed to 39X50 from 39V40 (Computerized Systems Maintenance Chief) or 39W40 (Radar/Special Electronic Devices Maintenance Chief).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision and 3 in maintenance management. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in management problems (6/90).

MOS-39Y-001

FIELD ARTILLERY TACTICAL FIRE DIRECTION
SYSTEMS REPAIRER
39Y10
39Y20
39Y30

Exhibit Dates: 1/90-4/92. Effective 4/92, MOS 39Y was discontinued, and its duties were incorporated into MOS 29J, Telecommunications Terminal Device Repairer.

Career Management Field: 29 (Communications Electronics Maintenance).

Description

Summary: Performs direct and general support maintenance on field artillery tactical fire direction systems, variable format entry devices, and related test equipment. **Skill Level 10:** Makes detailed tests using voltmeters, ohmmeters, oscilloscopes, logic probes, and other test equipment to localize and isolate malfunctions; replaces faulty components at the integrated circuit board level; may replace resistors, capacitors, integrated circuits, and other discrete components in emergency situations; maintains tools and test equipment; test operates computer-controlled system; checks and maintains electromechanical subsystems, including motors, generators, servos, and mechanical actuators; interprets complex block diagrams, schematics, and technical manuals. **Skill Level 20:** Able to perform the duties required for Skill Level 10; checks maintenance performed by subordinates; inspects systems for wear and possible future problem areas; supervises system repair contact team; interfaces with system users to identify cause of malfunctions. **Skill Level 30:** Able to perform the duties required for Skill Level 20; has complete responsibility for supervising a multimillion dollar maintenance van; directs and coordinates the activities of five to ten subordinates; performs performance appraisals; conducts on-the-job training; establishes work priorities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in circuit diagnosis and 3 in computer system maintenance and repair. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (11/85).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in circuit diagnosis, 6 in computer system maintenance and repair, 3 in record keeping, and 1 in personnel supervision (11/85).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in circuit diagnosis, 6 in computer system maintenance and repair, 3 in record keeping, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (11/85).

MOS-41B-002

TOPOGRAPHIC INSTRUMENT REPAIR SPECIALIST
41B10
41B20

Exhibit Dates: 1/90-9/90. Effective 9/90, MOS 41B was discontinued, and its duties were incorporated into MOS 82B, Construction Surveyor, and MOS 82D, Topographic Surveyor.

Career Management Field: 81 (Topographic Engineering), subfield 812 (Surveying).

Description

Summary: Performs maintenance on topographic survey and cartographic equipment. **Skill Level 10:** Inspects equipment for damaged, defective, or malfunctioning parts or assemblies; adjusts and performs operational tests on equipment; checks optics for such conditions as lens aberrations, parallax, tilt of reticule, and scratched lens; disassembles equipment and replaces defective parts with standard items; interprets blueprints and military or manufacturers' specifications; isolates and corrects faults; lays and fabricates unobtainable metal parts or coordinates their fabrication with machinists, welders, or other specialists; makes sketches or diagrams used in disassembling and reassembling equipment or fabricating parts; applies principles of basic electricity when making minor electrical repairs; makes precision bits and clearances using precision measuring instruments; requisitions and inventories spare parts; prepares maintenance records. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; controls quality of topographic instrument maintenance by inspecting repairs performed; estimates cost of repairs, parts, and labor; prepares and reviews maintenance records and reports; schedules and assigns duties; fabricates special tools; overhauls and rebuilds equipment.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in survey and optical instrument repair. In the lower-division baccalaureate/associate degree category, 3 semester hours in survey and optical instrument repair, 3 in basic surveying, 2 in care and use of tools and equipment, and credit in optics on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in survey and optical instrument repair. In the lower-division baccalaureate/associate degree category, 3 semester hours in survey and optical instrument repair, 3 in basic surveying, 2 in use and care of tools and equipment, 2 in record keeping, and credit in optics on the basis of institutional evaluation (5/78).

MOS-41C-003

FIRE CONTROL INSTRUMENT REPAIRER
41C10
41C20
41C30

Exhibit Dates: 1/90-9/91.

Career Management Field: 63 (Mechanical Maintenance), subfield 634 (Armament Maintenance).

Description

Summary: Performs maintenance on fire control instruments and related equipment. **Skill Level 10:** Performs maintenance on fire control instruments and related equipment, including binoculars, aiming circles, telescopes, range finders, and ballistic computers; uses hand and power tools and testing devices to remove, repair, replace, and synchronize fire control systems; traces circuits using schematic diagrams; replaces defective parts; performs operating tests to ensure proper performance. **Skill Level 20:** Able to perform the duties required for Skill Level 10; troubleshoots and diagnoses fire control instruments; supervises and provides technical assistance to subordinates; conducts on-the-job training; prepares maintenance records. **Skill Level 30:** Able to perform the duties required for Skill Level 20; instructs and supervises subordinates; plans and organizes work schedules; applies management principles and techniques; performs quality control checks and technical inspections; requisitions parts and materials; establishes and supervises a shop safety program.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in applied physics, 3 in optical equipment repair laboratory, and 1 in use and care of hand and power tools (7/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in applied physics, 3 in optical equipment repair laboratory, 1 in use and care of hand and power tools, 1 in record keeping, 3 in shop practices, and 2 in personnel supervision (7/82).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in applied physics, 3 in optical equipment repair laboratory, 1 in use and care of hand and power tools, 1 in record keeping, 3 in shop practices, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and additional credit in management on the basis of institutional evaluation (7/82).

MOS-41C-004**FIRE CONTROL INSTRUMENT REPAIRER**

41C10

41C20

41C30

Exhibit Dates: 10/91-4/92. Effective 4/92, MOS 41C was discontinued, and its duties were incorporated into MOS 45G, Fire Control Repairer and MOS 45K, Armament Repairer.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Performs maintenance on fire control instruments and related equipment. *Skill Level 10:* Performs maintenance on fire control instruments and related equipment, including binoculars, aiming circles, telescopes, range finders, and ballistic computers; uses hand and power tools and testing devices to remove, repair, replace, and synchronize fire control systems; traces circuits using schematic diagrams; uses oscilloscopes, digital volt meters, and associated test equipment; replaces defective parts; performs operating tests to ensure proper performance. *Skill Level 20:* Able to perform the duties required for Skill Level 10; troubleshoots and diagnoses fire control instruments; supervises and provides technical assistance to subordinates; conducts on-the-job training; prepares maintenance records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; instructs and supervises subordinates; plans and organizes work schedules; applies management principles and techniques; performs quality control checks and technical inspections; requisitions parts and materials; establishes and supervises a shop safety program.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour in applied physics, 3 in optical instrument repair, and 3 in personnel supervision (11/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 1 semester hour in applied physics, 3 in optical instrument repair, and 3 in personnel supervision (11/91).

MOS-42C-002**ORTHOTIC SPECIALIST**

42C10

42C20

42C30

42C40

Exhibit Dates: 1/90-5/92.

Career Management Field: 91 (Medical), subfield 912 (Patient Care).

Description

Summary: Designs, fabricates, fits, adjusts, and repairs orthotic devices. *Skill Level 10:* Able to perform the duties required for Skill Level 10 of MOS 91B (Medical Specialist); assists in designing, fabricating, fitting, adjusting, and repairing orthotic appliances; makes impressions of injured body members and fabricates orthotic appliances of metal, plastic, synthetics, resins, plaster, leather, rubber, textiles, and adhesives, using welding, soldering, forging, riveting, sewing, laminating, brazing,

woodworking, pattern and template machines and equipment, and all types of power and hand tools; adjusts constructed appliances and fits to patient; repairs, readjusts, reworks, and refits worn and defective appliances. *Skill Level 20:* Able to perform the duties required for Skill Level 10; measures patient in operating room and molds temporary plastic socket; designs, fabricates, and tests experimental devices for which there are no models or standard pattern; adapts techniques to fit local requirements and available equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance to subordinates; instructs subordinates in work techniques and procedures; inspects completed appliances. *Skill Level 40:* Able to perform the duties required for Skill Level 30; establishes work priorities; organizes work schedules and assigns duties; supervises the equipment maintenance program; makes sure the shop is safe, clean, and orderly; determines personnel requirements and prepares and conducts training programs; evaluates personnel performance; prepares administrative, technical, and personnel reports; coordinates orthopedic activities with other elements of the medical treatment facility; advises and assists physicians in professional, fiscal, technical, and administrative matters; establishes stock level for supplies and equipment and supervises the requisitioning, storing, and issuing of supplies.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 24 semester hours in orthotic techniques (including spinal, lower-extremity, and upper-extremity orthotics), 6 in applied design, 2 in anatomy, 2 in shop practices, 1 in physiology, and 1 in kinesiology. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 24 semester hours in orthotic techniques (including spinal, lower-extremity, and upper-extremity orthotics), 6 in applied design, 3 in clinical orthotics, 3 in human relations, 2 in anatomy, 2 in shop practices, 1 in physiology, and 1 in kinesiology (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 24 semester hours in orthotic techniques (includes spinal, lower-extremity, and upper-extremity orthotics), 6 in applied design, 3 in clinical orthotics, 3 in human relations, 2 in anatomy, 2 in shop practices, 1 in physiology, and 1 in kinesiology (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 24 semester hours in orthotic techniques (including spinal, lower-extremity, and upper-extremity orthotics), 6 in applied design, 3 in clinical orthotics, 3 in human relations, 3 in personnel supervision, 2 in anatomy, 2 in shop practices, 1 in physiology, and 1 in kinesiology. In the upper-division baccalaureate category, 2 semester hours in medical facility management (6/77).

MOS-42C-003**ORTHOTIC SPECIALIST**

42C10

42C20

42C30

42C40

Exhibit Dates: 6/92-12/94. (Effective 12/94, MOS 42C was discontinued.)

Career Management Field: 91 (Medical).

Description

Summary: Designs, fabricates, fits, adjusts, and repairs orthotic devices. *Skill Level 10:* Assists in designing, fabricating, fitting, adjusting, and repairing orthotic appliances; makes impressions of injured body members and fabricates orthotic appliances of metal, plastic, synthetics, resins, plaster, leather, rubber, textiles, and adhesives, using welding, soldering, forging, riveting, sewing, laminating, brazing, woodworking, pattern and template machines and equipment, and all types of power and hand tools; adjusts constructed appliances and fits to patient; repairs, readjusts, reworks, and refits worn and defective appliances. *Skill Level 20:* Able to perform the duties required for Skill Level 10; measures patient in operating room and molds temporary plastic socket; designs, fabricates, and tests experimental devices for which there are no models or standard pattern; adapts techniques to fit local requirements and available equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance to subordinates; instructs subordinates in work techniques and procedures; inspects completed appliances. *Skill Level 40:* Able to perform the duties required for Skill Level 30; establishes work priorities; organizes work schedules and assigns duties; supervises the equipment maintenance program; makes sure the shop is safe, clean, and orderly; determines personnel requirements; prepares and conducts training programs; evaluates personnel performance; prepares administrative, technical, and personnel reports; coordinates orthopedic activities with other elements of the medical treatment facility; advises and assists physician in professional, fiscal, technical, and administrative matters; establishes stock level for supplies and equipment and supervises the requisitioning, storing, and issuing of supplies.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 8 semester hours in orthotic fabrication, 6 in orthotic design, 3 in patient measurement and assessment, and 3 in personnel supervision (6/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in orthotic fabrication, 6 in orthotic design, 3 in patient measurement and assessment, 3 in personnel supervision, and 2 in records and information management (6/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in orthotic fabrication, 6 in orthotic design, 3 in patient measurement and assessment, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (6/92).

MOS-42D-002**DENTAL LABORATORY SPECIALIST**

42D10
42D20
42D30
42D40

Exhibit Dates: 1/90-5/92

Career Management Field: 91 (Medical),
subfield 911 (Dental).

Description

Summary: Supervises or performs basic and advanced procedures in fabrication and repair of dental prosthodontic appliances. **Skill Level 10:** Able to perform the duties required for Skill Level 10 of MOS 91E (Dental Specialist); performs primary procedures in fabrication and repair of removable and fixed dental prosthodontic appliances; reviews and processes prosthodontic prescriptions and consultation requests; prepares and uses basic dental laboratory materials; fabricates casts from preliminary impressions; fabricates final impression trays for complete, immediate-complete, removable, and fixed partial dentures; prepares impressions and pours final casts for complete, immediate-complete, removable, and fixed partial dentures; fabricates stabilized and nonstabilized occlusion rims for complete, immediate-complete, removable, and fixed partial dentures; replaces missing or broken teeth and repairs fractured bases on complete and removable partial dentures. **Skill Level 20:** Able to perform the duties required for Skill Level 10; performs basic dental laboratory procedures; uses face-brow and measurements to mount casts on adjustable articulator; employs mold guide, occlusion rims, registrations, markings, and interarch measurements to select denture teeth; fabricates maxillary and mandibular complete dentures using conventional and liquid resin techniques; fabricates immediate-complete dentures with surgical templates; fabricates removable partial denture prostheses; modifies dental laboratory techniques to fabricate removable complete and partial dentures for cases with variant interarch and interridge relationships; repairs, relines, rebases, and duplicates removable complete and partial dentures; fabricates and repairs basic orthodontic, pedodontic, periodontic, and surgical appliances; fabricates and repairs conventional fixed partial dentures, including crowns, inlays, and preformed pontics; fabricates transitional fixed partial dentures. **Skill Level 30:** Able to perform the duties required for Skill Level 20; performs advanced dental laboratory procedures or assists in managing a small dental laboratory; fabricates ceramic and porcelain-fused-to-metal crowns and fixed partial dentures; fabricates fixed and removable precision appliances; fabricates complex orthodontic, pedodontic, periodontic, and surgical appliances; assists in fabricating maxillofacial appliances; performs quality control procedures; establishes work priorities and assigns duties; organizes work schedules; demonstrates and explains work techniques and procedures to subordinates; evaluates personnel performance; supervises operational maintenance program of laboratory equipment. **Skill Level 40:** Able to perform the duties required for Skill Level 30; assists in managing a large dental laboratory or a section of a regional dental activity; advises and assists dentists in personnel matters, supply economy procedures, and fiscal, technical, and administrative mat-

ters, prepares administrative and technical reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in anatomy and tooth morphology, 1 in dental materials, and 1 in complete dentures. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in complete dentures, 3 in partial dentures, 3 in fixed restorative, 2 in anatomy and tooth morphology, 1 in dental anatomy, and 1 in dental materials (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in complete dentures, 4 in dental ceramics, 3 in partial dentures, 3 in fixed restorative, 2 in anatomy and tooth morphology, 2 in orthodontic procedures, 2 in dental anatomy, 1 in dental materials, and 1 in dental anatomy (occlusion), and additional credit in personnel supervision, field experience in management, and communication skills on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in complete dentures, 4 in dental ceramics, 3 in partial dentures, 3 in fixed restorative, 2 in anatomy and tooth morphology, 2 in orthodontic procedures, 2 in dental anatomy, 2 in personnel supervision, 2 for field experience in management, 2 in oral communication skills, 1 in health care management, 1 in dental materials, and 1 in dental anatomy (occlusion) (6/77).

MOS-42D-003**DENTAL LABORATORY SPECIALIST**

42D10
42D20
42D30
42D40

Exhibit Dates: 6/92-12/94. Effective 12/94, MOS 42D was discontinued, and its duties were transferred to MOS 91E.

Career Management Field: 91 (Medical).

Description

Summary: Supervises or performs basic and advanced procedures in fabrication and repair of dental prosthodontic appliances. **Skill Level 10:** Able to perform the duties required for Skill Level 10 of MOS 91E (Dental Specialist); performs primary procedures in fabrication and repair of removable and fixed dental prosthodontic appliances; reviews and processes prosthodontic prescriptions and consultation requests; prepares and uses basic dental laboratory materials; fabricates final impression trays for complete, immediate-complete, removable, and fixed partial dentures; prepares impressions and pours final casts for complete, immediate-complete, removable, and fixed partial dentures; fabricates stabilized and nonstabilized occlusion rims for complete, immediate-complete, removable, and fixed partial dentures; replaces missing or broken teeth and repairs fractured bases on complete and removable partial dentures; performs basic dental laboratory procedures; uses face-brow and measurements to mount casts on adjustable articulator;

employs mold guide, occlusion rims, registrations, markings, and interarch measurements to select denture teeth; fabricates maxillary and mandibular complete dentures; fabricates removable partial denture prostheses; repairs, relines, rebases, and duplicates removable complete and partial dentures; fabricates and repairs basic orthodontic, pedodontic, periodontic, and surgical appliances; fabricates and repairs conventional fixed partial dentures, including crowns, inlays, and preformed pontics; fabricates transitional fixed partial dentures. **Skill Level 20:** Able to perform the duties required for Skill Level 10; reviews prescriptions and determines method of accomplishing task assignment; orders, receives, and issues supplies and equipment; assists subordinates; assists with training and administrative management; prepares and maintains laboratory, feeder requisitions, and reports. **Skill Level 30:** Able to perform the duties required for Skill Level 20; performs advanced dental laboratory procedures or assists in managing a small dental laboratory; fabricates ceramic and porcelain-fused-to-metal crowns and fixed partial dentures; fabricates fixed and removable precision appliances; fabricates complex orthodontic, pedodontic, periodontic, and surgical appliances; assists in fabricating maxillofacial appliances; performs quality control procedures; establishes work priorities and assigns duties; organizes work schedules; demonstrates and explains work techniques and procedures to subordinates; evaluates personnel performance; supervises operational maintenance program of laboratory equipment. **Skill Level 40:** Able to perform the duties required for Skill Level 30; assists in managing a large dental laboratory or a section of a regional dental activity; advises and assists dentists in personnel matters, supply economy procedures, and fiscal, technical, and administrative matters; prepares administrative and technical reports.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic denture preparation, 3 in dental laboratory procedures, 4 in directed practice in the dental laboratory, and 3 in personnel supervision (6/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic denture preparation, 3 in dental laboratory procedures, 4 in directed practice in the dental laboratory, 3 in personnel supervision, and 2 in records and information management (6/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic denture preparation, 3 in dental laboratory procedures, 4 in directed practice in the dental laboratory, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (6/92).

MOS-42E-002**OPTICAL LABORATORY SPECIALIST**

42E10
42E20
42E30
42E40
42E50

Exhibit Dates: 1/90-5/92.**Career Management Field:** 91 (Medical), subfield 913 (Health Services).**Description**

Summary: Makes prescription lenses or supervises optical laboratories. *Skill Level 10:* Makes, duplicates, and inserts prescription lenses; selects proper stock to fill requirements of spectacle prescription; computes and records curvature and thickness and marks lenses for surfacing; prepares lenses for blocking and surfacing; grinds and polishes lenses to prescribed specifications; locates and identifies optical center, optical axis, and cutting line on lenses; chucks lenses for edging; edges lenses to correct size and shape; hardens glass lenses to required impact resistance; selects and assembles frame components; mounts lenses and aligns frames; prepares completed spectacles for shipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; edits prescriptions and maintains records of prescriptions received by optical unit; calculates and records amount of prism required to permit necessary decentration; calculates and records distance required between top of bifocal or trifocal segments and distance-optical-center to produce prescribed segment height; dyes plastic lenses to specified tints; maintains files of completed spectacle prescriptions; prepares surface work sheets for plastic lens coating; calculates and records positional effective lens power; maintains inventory of supplies and equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a small optical laboratory; inspects completed spectacles for compliance with prescription requirements and quality standards; assigns duties and trains subordinates in work techniques and procedures; determines stock levels; maintains supply records; requisitions, stores, and issues supplies; supervises preventive maintenance of equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a medium-sized optical laboratory; maintains records on cost data and expenditures; ensures that the laboratory is safe, clean, and orderly; supervises quality control procedures; establishes work priorities; organizes work schedules; evaluates personnel performance; plans layout areas; prepares technical, personnel, and administrative reports; coordinates activities of the optical laboratory with medical treatment facilities; advises and assists professionals in fiscal, technical, and administrative matters. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises a large optical laboratory; prepares periodic laboratory reports; determines manpower requirements; drafts budget estimates; prepares operating procedures for optical unit.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 10 semester hours for an optical laboratory practicum, 8 in optical laboratory procedures, and 5 in physics (optics). (NOTE:

This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 10 semester hours for an optical laboratory practicum, 8 in optical laboratory procedures, 5 in physics (optics), 1 in anatomy and physiology, and 1 in office procedures (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 10 semester hours for an optical laboratory practicum, 8 in optical laboratory procedures, 5 in physics (optics), 3 in office procedures, 1 in anatomy and physiology, and 1 in personnel supervision (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 10 semester hours for an optical laboratory practicum, 8 in optical laboratory procedures, 5 in physics (optics), 3 in office procedures, 3 in personnel supervision, 3 for field experience in management, and 1 in anatomy and physiology (6/77).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 10 semester hours for an optical laboratory practicum, 8 in optical laboratory procedures, 5 in physics (optics), 3 in office procedures, 3 in personnel supervision, 3 for field experience in management, 3 in introduction to management, and 1 in anatomy and physiology. In the upper-division baccalaureate category, 3 semester hours in medical facility management and 3 in management problems (6/77).

MOS-42E-003**OPTICAL LABORATORY SPECIALIST**

42E10
42E20
42E30
42E40
42E50

Exhibit Dates: 6/92-7/94.**Career Management Field:** 91 (Medical).**Description**

Summary: Makes prescription lenses or supervises optical laboratories. *Skill Level 10:* Makes, duplicates, and inserts prescription lenses; selects proper stock to fill requirements of spectacle prescription; computes and records curvature and thickness and marks lenses for surfacing; grinds and polishes lenses to prescribed specifications; locates and identifies optical center, optical axis, and cutting line on lenses; chucks lenses for edging; edges lenses to correct size and shape; hardens glass lenses to required impact resistance; selects and assembles frame components; mounts lenses and aligns frames; prepares completed spectacles for shipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; edits prescriptions and maintains records of prescriptions received by optical unit; calculates and records amount of prism required to permit necessary decentration; calculates and records distance required between top of bifocal or trifocal segments and distance-optical-center to produce prescribed segment height; dyes plastic lenses to specified tints; maintains files of completed spectacle prescriptions; prepares surface work sheets for plastic lens coating; calculates

and records positional effective lens power; maintains inventory of supplies and equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a small optical library; inspects completed spectacles for compliance with prescription requirements and quality standards; assigns duties and trains subordinates in work techniques and procedures; determines stock levels; maintains supply records; requisitions, stores, and issues supplies; supervises preventive maintenance of equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a medium-sized optical laboratory; maintains records of cost data and expenditures; ensures that the laboratory is safe, clean, and orderly; supervises quality control procedures; establishes work priorities; organizes work schedules; evaluates personnel performance; plans layout areas; prepares technical, personnel, and administrative reports; coordinates activities of the optical laboratory with medical treatment facilities; advises and assists professionals in fiscal, technical, and administrative matters. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises a large optical laboratory; prepares periodic laboratory reports; determines manpower requirements; drafts budget estimates; prepares operating procedures for optical unit.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 7 semester hours in optical laboratory procedures and 3 in personnel supervision (6/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 7 semester hours in optical laboratory procedures, 3 in personnel supervision, and 2 in records and information management (6/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 7 semester hours in optical laboratory procedures, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (6/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 7 semester hours in optical laboratory procedures, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if paygrade E-9 was attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (6/92).

MOS-42E-004**OPTICAL LABORATORY SPECIALIST**

42E10
42E20
42E30
42E40

Exhibit Dates: Pending Evaluation 8/94
Present

MOS-43E-002

PARACHUTE RIGGER

43E10
43E20
43E30
43E40
43E50

Exhibit Dates: 1/90-1/92.

Career Management Field: 76 (Supply and Service), subfield 762 (Service).

Description

Summary: Is a qualified parachutist; packs aircraft cargo and personnel parachutes; fabricates, assembles, repairs, and rigs airdrop equipment. *Skill Level 10:* Packs and repairs cargo and personnel parachutes; rigs, fabricates, and assembles airdrop equipment; loads, positions, and secures cargo for airdrops; tests hooks and releases; utilizes repair equipment for parachutists; reads maps; loads, unloads, receives, inspects, inventories, and stores air equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; conducts routine and in-storage inspections of airdrop equipment; tests rip cord and canopy release assemblies. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises small and medium activities engaged in packing and repairing parachutes and rigging and loading supplies and equipment for airdrop; assigns packers, repairers, riggers, and inspectors; instructs personnel on job requirements and techniques and inspects work in progress; inspects working area to insure a clean and safe environment; plans and supervises operational equipment maintenance programs; establishes supply requirements; requisitions, stores, and issues supplies and equipment; establishes, develops, and maintains operational and maintenance records and prepares periodic reports; may supervise up to 35 persons. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises large activities engaged in packing and repairing parachutes and rigging and loading of supplies and equipment for airdrop; may supervise up to 50 persons. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as principal noncommissioned officer in airdrop equipment support company; may supervise more than 50 persons or serve in staff position.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 5 semester hours in parachute inspection and rigging and 1 in map reading. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (5/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 5 semester hours in parachute inspection and rigging, 6 in air freight (on board) management, and 1 in map reading (5/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in parachute inspection and rigging, 6 in air freight (on board) management, 1 in map reading, 2 in technical report writing, 3 in human relations, and 3 in personnel supervision. In the upper-

division baccalaureate category, 3 semester hours in personnel management, 3 for field experience in management, 3 in inventory control, 3 in safety procedures, and 2 in records administration (5/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in parachute inspection and rigging, 6 in air freight (on board) management, 1 in map reading, 3 in personnel supervision, 3 in human relations, and 2 in technical report writing. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 for field experience in management, 3 in inventory control, 3 in safety procedures, 3 in records administration, and 3 in introduction to management (5/78).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 6 semester hours in parachute inspection and rigging, 6 in air freight (on board) management, 1 in map reading, 3 in personnel supervision, 3 in human relations, 2 in technical report writing, and 3 for field experience in management. In the upper-division baccalaureate category, 3 semester hours in personnel management, 6 for field experience in management, 3 in records administration, 3 in inventory control, 3 in safety procedures, and 3 in introduction to management (5/78).

MOS-43E-003

PARACHUTE RIGGER

43E10
43E20
43E30
43E40
43E50

Exhibit Dates: 2/92-12/95. Effective 12/95, MOS 43E was discontinued and its duties were incorporated into MOS 92R, Parachute Rigger.

Career Management Field: 76 (Supply and Service).

Description

Summary: Is a qualified parachutist; packs aircraft cargo and personnel parachutes; fabricates, assembles, repairs, and rigs airdrop equipment. *Skill Level 10:* Packs and repairs cargo and personnel parachutes; rigs, fabricates, and assembles airdrop equipment; loads, positions, and secures cargo for airdrops; tests hooks and releases; utilizes repair equipment for parachutists; reads maps; loads, unloads, receives, inspects, inventories, and stores airdrop equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; conducts routine and in-storage inspection of airdrop equipment; tests rip cord and canopy release assemblies; supervises squad of approximately six persons. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises small and medium activities engaged in packing and repairing parachutes and rigging and loading supplies and equipment for airdrop; assigns packers, repairers, riggers, and inspectors; instructs personnel on job requirements and techniques and inspects work in progress; inspects working area to insure a clean and safe working environment; plans and supervises operational equipment maintenance programs; establishes supply requirements; requisitions, stores, and issues supplies and equipment; establishes, develops, and maintains operational

and maintenance records and prepares periodic reports; may supervise up to 35 persons. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises large activities engaged in packing and repairing parachutes and the rigging and loading of supplies and equipment for airdrop; may supervise up to 50 persons. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as principal noncommissioned officer in airdrop equipment support company; may supervise more than 50 persons or serve in staff positions.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in aircraft weight and balance, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 2/92-2/95 only) (2/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in aircraft weight and balance, 3 in personnel supervision, 3 in technical report writing, and 2 in records and information management. In the upper-division baccalaureate category, 2 semester hours in inventory control (2/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in aircraft weight and balance, 3 in personnel supervision, 3 in technical report writing, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in inventory control, 3 in organizational management, and 3 for field experience in management (2/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in aircraft weight and balance, 3 in personnel supervision, 3 in technical report writing, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in inventory control, 3 in organizational management, and 6 for field experience in management; if paygrade E-9 has been attained, additional credit as follows: 3 semester hour in management problems, 3 in operations management, and 3 in communication techniques for managers (2/92).

MOS-43M-003

FABRIC REPAIR SPECIALIST

43M10
43M20
43M30
43M40

Exhibit Dates: 1/90-1/92.

Career Management Field: 76 (Supply and Service), subfield 762 (Service).

Description

Summary: Repairs or supervises the repair of textile and canvas items, webbed equipment, and clothing. *Skill Level 10:* Repairs textile and canvas items; determines repair requirement; operates sewing, stitching, and patching equipment; performs minor repairs and preventive maintenance on canvas repair and textile equip-

ment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs quality assurance inspections; inspects, classifies, and determines reparability of textile, canvas, and webbed items; salvages repairable parts. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and coordinates small- and medium-sized operations and preventive maintenance activities in mobile and fixed textile and canvas repair shop; establishes quality control standards; establishes work schedules and assignments; supervises from 8 to 30 persons; evaluates personnel performance; counsels personnel and prepares evaluation reports; maintains records. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises large operation and preventive maintenance activities in textile and canvas repair shop; supervises more than 30 persons.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in power sewing machine operations and 4 for field experience in sewing operations. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in power sewing machine operations and 6 for field experience in sewing operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in sewing and tailoring operations (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 5 semester hours in power sewing machine operations and 8 for field experience in sewing operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in sewing and tailoring operations, 3 in human relations, and 2 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (5/78).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in power sewing machine operations and 8 for field experience in sewing operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in sewing and tailoring operations, 3 in human relations, 3 in introductory organization management, and 2 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (5/78).

MOS-43M-004

FABRIC REPAIR SPECIALIST

43M10
43M20
43M30
43M40

Exhibit Dates: 2/92-2/95.

Career Management Field: 76 (Supply and Service).

Description

Summary: Repairs or supervises the repair of textile and canvas items, webbed equipment, and clothing. *Skill Level 10:* Repairs textile and canvas items; determines repair requirements; operates sewing, stitching, and patching equip-

ment; performs minor repairs and preventive maintenance on canvas repair and textile equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs quality assurance inspections; inspects, classifies, and determines reparability of textile, canvas, and webbed items; salvages repairable parts; supervises squad of approximately six persons. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and coordinates small or medium operation and preventive maintenance activities in mobile and fixed textile and canvas repair shop; establishes quality control standards; establishes work schedules and assignments; supervises from 8 to 30 persons; evaluates personnel performance; counsels personnel; prepares evaluation reports; maintains records. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises large operation and preventive maintenance activities in textile and canvas repair shop; supervises more than 30 persons.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in power machine operations and 5 for field experience in power sewing. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision (2/92).

Recommendation, Skill Level 30

In the vocational certificate category, 7 semester hours in power machine operations and 6 for field experience in power sewing. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management (2/92).

Recommendation, Skill Level 40

In the vocational certificate category, 8 semester hours in power machine operations and 6 for field experience in power sewing. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (2/92).

MOS-43M-005

FABRIC REPAIR SPECIALIST

43M10
43M20
43M30
43M40

Exhibit Dates: 3/95-Present.

Career Management Field: 76 (Supply and Service).

Description

Summary: Repairs or supervises the repair of textile and canvas items, webbed equipment, and clothing. *Skill Level 10:* Repairs textile and canvas items; determines repair requirements; operates sewing, stitching, and patching equipment; performs minor repairs and preventive maintenance on canvas repair and textile equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs quality assurance inspections; inspects, classifies, and determines reparability of textile, canvas, and

webbed items; salvages repairable parts; supervises squad of approximately six persons. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and coordinates small or medium operation and preventive maintenance activities in mobile and fixed textile and canvas repair shop; establishes quality control standards; establishes work schedules and assignments; supervises from 8 to 30 persons; evaluates personnel performance; counsels personnel; prepares evaluation reports; maintains records. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises large operation and preventive maintenance activities in textile and canvas repair shop; supervises more than 30 persons.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/92).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in power machine operations and 5 for field experience in power sewing. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management (2/92).

Recommendation, Skill Level 40

In the vocational certificate category, 7 semester hours in power machine operations and 6 for field experience in power sewing. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (2/92).

MOS-44B-003

METAL WORKER

44B10
44B20

Exhibit Dates: 1/90-9/91.

Career Management Field: 63 (Mechanical Maintenance), subfield 632 (Metalworking).

Description

Summary: Repairs and straightens metal body panels, fenders, and sheet metal parts; repairs and installs radiators and fuel tanks; welds ferrous and nonferrous metals. *Skill Level 10:* Repairs damaged metal body components with hammer, dolly blocks, spoon, and hydraulic jacks; removes and replaces body trim; cuts, grinds, and installs safety glass; cleans, repairs, and installs radiators and fuel tanks; prepares surface for painting by filling, sanding, masking, and cleaning; welds ferrous and nonferrous metals, using oxyacetylene, electric arc, and inert gas welding equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; demonstrates and performs more difficult phases of working metal by forming, welding, forging, and brazing; fabricates complex parts.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours in automo-

tive body repair, 3 in welding, and 3 in radiator repair (7/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in automotive body repair, 6 in welding, and 3 in radiator repair (7/82).

MOS-44B-004

METAL WORKER

44B10

44B20

Exhibit Dates: 10/91–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Supervises, inspects, installs, modifies, and performs maintenance on metal body components, radiators, fuel tanks, hulls, and accessories of army land vehicles, watercraft, and amphibians; welds ferrous and non-ferrous metals. *Skill Level 10:* Repairs damaged metal body components with hammer, dolly blocks, spoon, and hydraulic jacks; removes and replaces body trim; cuts, grinds, and installs safety glass; cleans, repairs, and installs radiators and fuel tanks; prepares surface for painting by filling, sanding, masking, and cleaning; welds ferrous and nonferrous metals, using oxyacetylene, electric arc, and inert gas welding equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; conducts on-the-job training; completes work records and forms; demonstrates and performs more difficult phases of working metal by forming, welding, forging, and brazing; fabricates complex parts.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in auto body repair, 3 in oxyacetylene welding, 3 in arc and inert gas welding, 2 in maintenance management, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 10/91-2/95 only) (11/91).

MOS-44E-003

MACHINIST

44E10

44E20

44E30

44E40

Exhibit Dates: 1/90–9/91.

Career Management Field: 63 (Mechanical Maintenance), subfield 632 (Metalworking).

Description

Summary: Performs and supervises the fabrication, repair, and modification of metallic and nonmetallic parts; supervises metalwork shop. *Skill Level 10:* Fabricates, repairs, and modifies metallic and nonmetallic parts using utility grinders, power cutoff saws, armature undercutters, arbor and hydraulic presses, drill presses and attachments, accessories, and tools; interprets job orders, blueprints, sketches, and specifications; lays out and sets up work; establishes and marks necessary reference points, centerlines, and matching guidelines; computes and sets up proper machine speeds to attain correct

cutting speeds, and depth of cut and feed, checks dimensions of finished work using measuring devices, such as squares, rules, scales, calipers, micrometers, and thread gauges; operates hand tools such as files, taps, dies, punches, hammers, screwdrivers, and wrenches. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; fabricates, repairs, and modifies metallic and nonmetallic parts, using milling machines, shapers, vertical and horizontal band saws, lathes, and tool and cutter grinders; applies heat treating procedures; conducts on-the-job training. *Skill Level 30:* Able to perform the duties required for Skill Level 20 of MOS 44E or 44B (Metal Worker); supervises support maintenance/metalworking shop; performs final inspection and approves disposition of completed work; supervises preparation of shop records and reports; assists in planning and setting up maintenance shops to obtain maximum utilization; schedules, assigns, and coordinates work; may supervise up to 19 persons. NOTE: May have progressed to 44E30 from 44E20 or 44B20 (Metal Worker). *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs as support maintenance machine shop supervisor or metalworker supervisor; performs support maintenance administrative functions and supervises the preparation of records and training of subordinates; may supervise 20 or more persons.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours in machine shop laboratory, and 3 in machine shop theory (7/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 8 semester hours in machine shop laboratory and 4 in machine shop theory (7/82).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in machine shop laboratory, 4 in machine shop theory, and 3 in personnel supervision (7/82).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in machine shop laboratory, 4 in machine shop theory, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for field experience in management (7/82).

MOS-44E-004

MACHINIST

44E10

44E20

44E30

44E40

Exhibit Dates: 10/91–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Performs and supervises the fabrication, repair, and modification of metallic and nonmetallic parts; supervises metalwork shop. *Skill Level 10:* Fabricates, repairs, and modifies metallic and nonmetallic parts using utility grinders, power cutoff saws, armature undercutters, lathes, milling machines, arbor and

hydraulic presses, drill presses and attachments, accessories, and tools; interprets job orders, blueprints, sketches, and specifications; lays out and sets up work; establishes and marks necessary reference points, centerlines, and matching guidelines; computes and sets up proper machine speeds to attain correct cutting speeds and depth of cut and feed, checks dimensions of finished work using such measuring devices as squares, rules, scales, calipers, micrometers, and thread gauges; operates hand tools such as files, taps, dies, punches, hammers, screwdrivers, and wrenches. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; fabricates, repairs, and modifies metallic and nonmetallic parts using milling machines, shapers, vertical and horizontal band saws, lathes, and tool and cutter grinders; conducts on-the-job training; completes work records and forms. *Skill Level 30:* Able to perform the duties required for Skill Level 20 of MOS 44E or 44B (Metal Worker); supervises support maintenance/metalworking shop; performs final inspection and approves disposition of completed work; supervises preparation of shop records and reports; assists in planning and setting up of maintenance shops to obtain maximum utilization; schedules, assigns, and coordinates work; supervises up to 19 persons. NOTE: May have progressed to 44E30 from 44E20 or 44B20 (Metal Worker). *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs as support maintenance machine shop supervisor or metalworker supervisor; performs support maintenance administrative functions; supervises the preparation of personnel records and training; supervises 20 or more persons.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in machine shop theory, 8 in machine shop laboratory, 2 in maintenance management, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 10/91-2/95 only) (11/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in machine shop theory, 8 in machine shop laboratory, 3 in maintenance management, and 3 in personnel supervision. If progressed from 44B20, grant the following credit: 3 semester hours in auto body repair, 3 in oxyacetylene welding, 3 in arc and inert gas welding, 3 in maintenance management, and 3 in personnel supervision (11/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in machine shop theory, 8 in machine shop laboratory, 3 in maintenance management, and 3 in personnel supervision. If progressed from 44B20, grant the following credit: 3 semester hours in auto body repair, 3 in oxyacetylene welding, 3 in arc and inert gas welding, 3 in maintenance management, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (11/91).

MOS-45B-002

SMALL ARMS REPAIRER

45B10

45B20

Exhibit Dates: 1/90-2/92.**Career Management Field:** 63 (Mechanical Maintenance), subfield 634 (Armament Maintenance).**Description**

Summary: Performs or supervises the performance of maintenance, repair, and overhaul of small arms. *Skill Level 10:* Disassembles weapons and cleans dirt, rust, and corrosion from components; inspects components for defects; performs repairs by grinding, sandblasting, soldering, and fitting component parts; replaces defective parts; lubricates and reassembles weapons; fits and adjusts parts to ensure smooth operation; uses common and specialized hand tools. *Skill Level 20:* Able to perform the duties required for Skill Level 10; troubleshoots and diagnoses small arms malfunctions; provides technical guidance and assistance to subordinates; supervises technical service assistance teams.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in use and care of hand tools, 2 in use and care of precision test equipment, and 3 in basic firearms repair. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in use and care of hand tools, 2 in use and care of precision test equipment, 3 in basic firearms repair, and additional credit in basic firearms repair on the basis of institutional evaluation (7/82).

MOS-45B-003

SMALL ARMS REPAIRER

45B10

45B20

Exhibit Dates: 3/92-Present.**Career Management Field:** 63 (Mechanical Maintenance).**Description**

Summary: Performs or supervises the performance of maintenance, repair, and overhaul of small arms. *Skill Level 10:* Disassembles weapons and cleans dirt, rust, and corrosion from components; inspects components for defects; performs repairs by grinding, sandblasting, soldering, and fitting component parts; replaces defective parts; lubricates and reassembles weapons; fits and adjusts parts to ensure smooth operation; uses common and specialized hand tools. *Skill Level 20:* Able to perform the duties required for Skill Level 10; troubleshoots and diagnoses small arms malfunctions; provides technical guidance and assistance to subordinates; supervises technical service assistance teams; prepares efficiency reports on subordinates; keeps proper records and inventory; instructs and counsels subordinates.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic small arms repair. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 3/92-2/95 only) (3/92).

MOS-45D-001

SELF-PROPELLED FIELD ARTILLERY TURRET

MECHANIC

45D10

45D20

Exhibit Dates: 1/90-2/92.**Career Management Field:** 63 (Mechanical Maintenance), subfield 635 (Weapon System Maintenance).**Description**

Summary: Troubleshoots and performs maintenance on armament, fire control, and related components of field artillery systems. *Skill Level 10:* Removes, repairs, installs, and tests armament sighting, fire control, electrical, and mechanical systems; repairs and adjusts previously diagnosed malfunctions of mechanical, electrical, and hydraulic systems; troubleshoots mechanical, electrical, and hydraulic systems using hand tools and test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; diagnoses and troubleshoots to the component level; isolates malfunctions using schematic diagrams; tests and inspects components; conducts on-the-job training and completes maintenance records.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulics, 3 in basic electricity, and 1 in use and care of hand tools. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulics, 3 in basic electricity, 1 in use and care of hand tools, 1 in records administration, and 1 in industrial safety (7/82).

MOS-45D-002

SELF-PROPELLED FIELD ARTILLERY TURRET

MECHANIC

45D10

45D20

Exhibit Dates: 3/92-Present.**Career Management Field:** 63 (Mechanical Maintenance).**Description**

Summary: Troubleshoots and performs maintenance on armament, fire control, and related components of field artillery systems. *Skill Level 10:* Removes, repairs, installs, and tests armament sighting, fire control, electrical, and mechanical systems; repairs and adjusts previously diagnosed malfunctions of mechanical, electrical, and hydraulic systems; troubleshoots mechanical, electrical, and hydraulic systems using hand tools and test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical

guidance and supervision to subordinates; diagnoses and troubleshoots to the system level; isolates malfunctions using schematic diagrams; tests and inspects components; conducts on-the-job training and completes maintenance records.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in hydraulics, 3 in basic electricity, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 3/92-2/95) (3/92).

MOS-45E-001

XM1 TANK TURRET MECHANIC

45E10

45E20

Exhibit Dates: 1/90-2/92.**Career Management Field:** 63 (Mechanical Maintenance), subfield 635 (Weapon System Maintenance).**Description**

Summary: Performs maintenance on armament, fire control, and related components of tanks. *Skill Level 10:* Services, repairs, and adjusts armament and fire control systems; performs corrective maintenance on mechanical, electrical, and hydraulic components; performs site adjustments and test-operates equipment; troubleshoots and repairs mechanical, electrical, and hydraulic systems using schematic diagrams; uses power tools, hand tools, and test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; diagnoses and troubleshoots to the component level; conducts on-the-job training; completes maintenance records.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulics, 3 in basic electricity, and 1 in use and care of hand tools. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulics, 3 in basic electricity, 1 in use and care of hand tools, 1 in records administration, and 1 in industrial safety (7/82).

MOS-45E-002

M1 ABRAMS TANK TURRET MECHANIC

45E10

45E20

Exhibit Dates: 3/92-Present.**Career Management Field:** 63 (Mechanical Maintenance).**Description**

Summary: Performs maintenance on vehicular-mounted armament (including machine guns) and associated fire control and related systems on M1 turrets. *Skill Level 10:* Services, repairs, and adjusts armament and fire control systems; performs corrective maintenance on mechanical, electrical, and hydraulic components; performs site adjustments and test-oper-

ates equipment; troubleshoots and repairs mechanical, electrical, and hydraulic systems using schematic diagrams, uses power tools, hand tools and test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; troubleshoots to the system level; conducts on-the-job training; completes maintenance records.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in hydraulics, 3 in basic electricity, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 3/92-2/95 only.) (3/92).

MOS-45G-001

FIRE CONTROL REPAIRER

(Fire Control System Repairer)

45G10

45G20

45G30

Exhibit Dates: 1/90–Present.

Career Management Field: 63 (Mechanical Maintenance, subfield 634 (Armament Maintenance)).

Description

Summary: Performs and supervises maintenance of laser, infrared laser devices, and electronic ballistic computers. *Skill Level 10:* Uses electronic and mechanical test equipment to perform troubleshooting and diagnostic procedures; traces circuits, uses schematic diagrams; uses hand and power tools; repairs circuit boards and practices laser safety precautions; has a working knowledge of multimeter, oscilloscope, and other special meters; visually inspects circuits and removes and replaces defective electrical and electronic components; has a thorough knowledge and understanding of electrical and electronic theory. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; inspects and tests repaired equipment; conducts on-the-job training; prepares reports and records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and instructs subordinates in troubleshooting and proper maintenance procedures and practices; prepares reports and records; plans work schedules and maintenance priorities; administers shop safety program.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in electrical fundamentals and 5 in electronic fundamentals. In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical shop, 5 in electrical/electronics theory, and 2 in computer fundamentals. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only.) (2/84).

Recommendation, Skill Level 20

In the vocational certificate category, 5 in electrical fundamentals and 5 in electronic fundamentals. In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical shop, 5 in electrical/electronics theory, and 2 in computer fundamentals. (NOTE:

This recommendation for skill level 20 is valid for the dates 1/90-2/95 only.) (2/84).

Recommendation, Skill Level 30

In the vocational certificate category, 5 in electrical fundamentals and 5 in electronic fundamentals. In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical shop, 5 in electrical/electronics theory, 2 in computer fundamentals, and 3 in personnel supervision. (2/84).

MOS-45K-003

TANK TURRET REPAIRER

45K10

45K20

45K30

Exhibit Dates: 1/90–2/92.

Career Management Field: 63 (Mechanical Maintenance), subfield 634 (Armament Maintenance).

Description

Summary: Performs maintenance and repair on turret mechanisms and weapons. *Skill Level 10:* Performs maintenance and repair on mechanical and hydraulic turret mechanisms and weapons; replaces bearings; cleans and repairs parts; removes and disassembles components for repair; uses precision instruments and hand tools; traces circuits and analyzes electrical problems using schematic diagrams. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; troubleshoots and diagnoses turret mechanisms and weapons; isolates causes of malfunctions; determines necessary repairs, and performs final tests and inspections to ensure proper performance; conducts on-the-job training; completes maintenance records. *Skill Level 30:* Able to perform the duties required for skill level 20 of MOS 45K, 45B (Small Arms Repairer), or 45L (Artillery Repairer); performs, supervises, and inspects maintenance; may supervise up to 19 persons in armament maintenance section; plans and organizes work schedules; instructs personnel; establishes shop safety program. (NOTE: May have progressed to 45K30 from 45K20, 45B20 (Small Arms Repairer) or 45L20 (Artillery Repairer).)

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in hydraulics, 1 in basic electrical wiring, and 1 in use and care of hand tools. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only.) (7/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in hydraulics, 2 in basic electrical wiring, 2 in use and care of hand tools, 3 in troubleshooting techniques (hydraulic and electrical systems), 1 in record keeping, and 2 in personnel supervision (7/82).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in personnel supervision. In the lower-division baccalaureate/associate degree category, 2 semester hours in hydraulics, 2 in basic electrical wiring, 2 in use and care of hand tools, 3 in troubleshooting techniques (hydraulic and electrical systems), 1 in record keeping, 3 in personnel supervision, and additional credit in troubleshooting techniques (hydraulic and

electrical systems) on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours for field experience in management and additional credit in management on the basis of institutional evaluation (7/82).

MOS-45K-004

ARMAMENT REPAIRER

(Tank Turret Repairer)

45K10

45K20

45K30

45K40

Exhibit Dates: 3/92–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Performs direct support and general support maintenance and repair on turret mechanisms and weapons of tanks, cupolas, and similar material. *Skill Level 10:* Maintains and repairs mechanical and hydraulic turret mechanisms and weapons; replaces bearings; cleans and repairs parts; removes and disassembles components for repair; uses precision instruments and hand tools; traces circuits and analyzes electrical problems using schematic diagrams. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; troubleshoots turret mechanisms and weapons; isolates causes of malfunctions; determines necessary repairs, and performs final tests and inspections to ensure proper performance; conducts on-the-job training; completes maintenance records. *Skill Level 30:* Able to perform the duties required for skill level 20 of MOS 45K, 45B (Small Arms Repairer), or 45L (Artillery Repairer); performs, supervises, and inspects maintenance; may supervise up to 19 persons in armament maintenance section; plans and organizes work schedules; instructs personnel; establishes a shop safety program. (NOTE: May have progressed to 45K30 from 45K20, 45B20 (Small Arms Repairer) or 45L20 (Artillery Repairer). *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises repair crews; supervises the preparation of records and reports; supervises training of subordinates; applies production and quality control principles and procedures to maintenance operations; determines appropriate method for repair or fabrication; plans and organizes work area layout; schedules, assigns, and coordinates work according to the availability and capability of personnel and equipment.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in hydraulics, 3 in basic electricity, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 3/92-2/95 only.) (3/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in hydraulics, 3 in basic electricity, 3 in personnel supervision, and 2 in records and information management (3/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in hydraulics, 3 in basic electricity, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (3/92).

MOS-45L-002**ARTILLERY REPAIRER**

45L10

45L20

Exhibit Dates: 1/90–2/92.

Career Management Field: 63 (Mechanical Maintenance), subfield 634 (Armament Maintenance).

Description

Summary: Maintains artillery turrets, weapons, and similar equipment. **Skill Level 10:** Maintains light, medium, and heavy self-propelled and towed artillery, turret mechanisms, and similar equipment; lubricates moving parts; uses common and specialized hand tools; measures tolerance with precision instruments and special tools; applies proper rigging procedures for hoisting heavy equipment and material; traces, tests, then repairs or replaces circuits. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 9 semester hours in shop practices and 2 in use and care of tools and precision test equipment. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 9 semester hours in shop practices and 2 in use and care of tools and precision test equipment (7/82).

MOS-45L-003**ARTILLERY REPAIRER**

45L10

45L20

Exhibit Dates: 3/92–4/92. Effective 4/92, MOS 45L was discontinued, and its duties were incorporated into MOS 45B, Small Arms Repair, and MOS 45K, Armament Repair.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Performs direct support and general support maintenance on artillery turrets, weapons and similar equipment. **Skill Level 10:** Maintains light, medium, and heavy self-propelled and towed artillery, turret mechanisms and similar equipment; lubricates moving parts; uses common and specialized hand tools; measures tolerance with precision instruments and special tools; applies proper rigging procedures for hoisting heavy equipment and material; traces and tests then repairs or replaces heavy equipment and material; traces and tests then repairs or replaces circuits. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; employs additional test, mea-

suring, and diagnostic equipment to identify malfunctions; authorizes final performance tests to assure equipment is operating within prescribed limits; conducts on-the-job training.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/92).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in hydraulics, 3 in basic electricity, and 3 in personnel supervision (3/92).

MOS-45N-001**TANK TURRET MECHANIC**

45N10

45N20

Exhibit Dates: 1/90–12/90.

Career Management Field: 63 (Mechanical Maintenance), subfield 634 (Armament Maintenance).

Description

Summary: Performs maintenance on conventional tank turret/cupola systems. **Skill Level 10:** Inspects, tests, troubleshoots, repairs, and adjusts electrical, hydraulic, fire control, mechanical, and firing systems; replaces components; cleans and lubricates turret/cupola systems; uses schematic diagrams; uses repair parts publications and orders parts. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates.

Recommendation, Skill Level 10

In the vocational certificate category, in an industrial truck mechanic apprentice training program, 1,000 clock hours of experience, 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination. In the lower-division baccalaureate/associate degree category, 6 semester hours in hydraulics, 4 in basic electricity, and additional credit in hydraulics, electricity, and mechanics on the basis of institutional evaluation (12/75).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in hydraulics, 4 in basic electricity, and additional credit in hydraulics, electricity, and mechanics on the basis of institutional evaluation (12/75).

MOS-45N-002**M60A1/A3 TANK TURRET MECHANIC**

45N10

45N20

Exhibit Dates: 1/91–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Performs maintenance on conventional tank turret/cupola systems. **Skill Level 10:** Inspects, tests, troubleshoots, repairs, and adjusts electrical, hydraulic, fire control, mechanical, and firing systems; replaces components; cleans and lubricates turret/cupola systems; uses schematic diagrams; uses repair parts publications and orders parts. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; employs applicable test, measuring,

and diagnostic equipment in conjunction with technical publications and prior knowledge to diagnose and troubleshoot equipment malfunctions; troubleshoots, isolates, and identifies causes of system or component malfunctions; interprets complex schematic diagrams to trace and isolate malfunctions caused by cracked components; conducts on-the-job training; completes maintenance forms and records.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulics, 3 in basic electricity, 3 in drawing interpretation, 3 in automotive fundamentals, and 3 in military science. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (4/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulics, 6 in basic electricity, 3 in drawing interpretation, 3 in automotive fundamentals, and 3 in military science, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/91-2/95 only) (4/91).

MOS-45T-001**BRADLEY FIGHTING VEHICLE SYSTEM MECHANIC**

45T10

45T20

Exhibit Dates: 1/90–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Performs maintenance of vehicular-mounted turret armaments, including turret weapons systems, fire control systems, and related electrical, mechanical, and hydraulic systems. **Skill Level 10:** Inspects, services, removes, replaces, adjusts, tests, and corrects previously diagnosed malfunctions of sighting and fire control systems and the vehicular-mounted turret electrical, mechanical, and hydraulic systems; cleans and maintains spare parts and hand tools; performs repair techniques as a member of a maintenance team; applies information from technical manuals and common schematic diagrams; completes applicable maintenance forms and records; practices safety precautions. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical supervision to subordinates; troubleshoots malfunctions using measuring and diagnostic equipment; interprets complex schematic diagrams; knows and applies map reading, traffic management, radio communication, and convoy operations skills.

Recommendation, Skill Level 10

Credit is not recommended because the skills, competencies, and knowledge are uniquely military in nature (7/87).

Recommendation, Skill Level 20

Credit is not recommended because the skills, competencies, and knowledge are uniquely military in nature (7/87).

MOS-45Z-002**ARMAMENT/FIRE CONTROL MAINTENANCE**

SUPERVISOR

45Z40

Exhibit Dates: 1/90–2/92.

Career Management Field: 63 (Mechanical Maintenance), subfield 634 (Armament Maintenance).

Description

Supervises repair crews engaged in maintenance of armament/fire control material; understands test and inspection procedure applicable to armament/fire control maintenance; plans and organizes work area layout to gain maximum efficiency and utilization of time, tools, equipment, and personnel; schedules, designs, and coordinates work according to availability and capabilities of personnel and equipment; estimates time required for specific maintenance effort; applies production control and quality control principles and procedures to maintenance operations; performs maintenance-related administrative functions; supervises the preparation of records and reports and the training of subordinates; may supervise 20 or more persons engaged in mechanical maintenance. **NOTE:** May have progressed to 45Z40 from 45G30 (Fire Control Systems Repairer), 41C30 (Fire Control Instrument Repairer), or 45K30 (Tank Turret Repairer).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 for field experience in management. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 6 for field experience in management (7/82).

MOS-45Z-003

ARMAMENT/FIRE CONTROL MAINTENANCE
SUPERVISOR
45Z40

Exhibit Dates: 3/92-4/92. Effective 4/92, MOS 45Z was discontinued, and its duties were incorporated into MOS 45K, Armament Repairer.

Career Management Field: 63 (Mechanical Maintenance).

Description

Supervises repair crews engaged in maintenance of armament/fire control material; understands test and inspection procedure applicable to armament/fire control maintenance; plans and organizes work area layout to gain maximum efficiency and utilization of time, tools, equipment, and personnel; schedules, designs, and coordinates work according to availability and capabilities of personnel and equipment; estimates time required for specific maintenance effort; applies production control and quality control principles and procedures to maintenance operation; performs maintenance-related administrative functions; supervises the preparation of records and reports and the training of subordinates; may supervise 20 or more persons engaged in mechanical maintenance; establishes and controls a file of technical publications. **NOTE:** May have progressed to 45Z40 from 45G30 (Fire Control Systems Repairer), 41C30 (Fire Control Instrument Repairer), or 45K30 (Tank Turret Repairer).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semes-

ter hours for field experience in management and 3 in organizational management (3/92).

MOS-46N-003

PERSHING ELECTRICAL-MECHANICAL REPAIRER

46N10

46N20

46N30

46N40

Exhibit Dates: 1/90-10/92. Effective 10/92, MOS 46N was discontinued.

Career Management Field: 27 (Land Combat and Air Defense System Direct and General Support Maintenance).

Description

Summary: Supervises or performs direct and general support maintenance on the electrical, mechanical, and hydraulic portions of the Pershing missile system. **Skill Level 10:** Performs maintenance on the Pershing missile system erector-launcher, missile sections, system structures, missile containers, ground handling equipment, power distribution sets, and related training devices; inspects, tests, and adjusts components to specific tolerances; determines malfunctions in electrical, mechanical, electro-mechanical, hydraulic, pneumatic and hydropneumatic assemblies, subassemblies, and circuits with common and specialized test equipment; removes and replaces defective components and parts; prepares maintenance and supply forms and reports. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides supervision and technical assistance to subordinates; prepares maintenance and supply forms and reports. **Skill Level 30:** Able to perform the duties required for Skill Level 20; serves as a first-line supervisor; organizes and conducts on-the-job training; supervises maintenance and inspection teams; establishes and keeps maintenance records; supervises quality control; sets work priorities. **Skill Level 40:** Able to perform the duties required for Skill Level 30; provides technical guidance and supervision to subordinates; assists in developing and executing quality control program.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in fluid power and 3 in automotive electrical systems troubleshooting. **(NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (8/92).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in fluid power, 3 in automotive electrical systems troubleshooting, and 3 in personnel supervision (8/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in fluid power, 3 in automotive electrical systems troubleshooting, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in operations management (8/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in fluid power, 3 in automotive electrical systems troubleshooting, 3 in personnel supervision, and 2

in records and information management. In the upper-division baccalaureate category, 3 semester hours in operations management, 3 in organizational management, and 3 for field experience in management (8/92).

MOS-46Q-001

JOURNALIST

46Q10

46Q20

46Q30

46Q40

Exhibit Dates: 1/90-Present.

Career Management Field: 46 (Public Affairs).

Description

Summary: Participates in or supervises the administration of information programs. **Skill Level 10:** Serving as a reporter, gathers information, prepares and edits news items and feature articles for newspapers, prepares publicity releases and information releases, and takes, develops, and selects photographs. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides guidance to subordinates; serving as an editor, edits news stories, prepares headlines and captions, designs format and layout, corrects and revises galley sheets, considers libel and copyright laws, coordinates newsgathering activities, and makes reporter assignments. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises the administration of an information program; trains and supervises subordinates in all aspects of journalism including circulation methods and business policies. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises and coordinates the management of an information program involving several media; implements new programs.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic news reporting, 3 in basic photography, and 3 in public relations writing. **(NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic news reporting, 3 in basic photography, 3 in public relations writing, 3 in copy editing, 3 in layout and design, and 3 in feature writing. **(NOTE:** This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (6/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic news reporting, 3 in basic photography, 3 in public relations writing, 3 in copy editing, 3 in layout and design, and 3 in feature writing. In the upper-division baccalaureate category, 3 semester hours in advanced news reporting, 3 in photojournalism, 3 in newspaper production, 3 in media relations, and 3 in personnel management (6/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic news reporting, 3 in basic photography, 3 in public relations writing, 3 in copy editing, 3 in layout and design, and 3 in feature writing. In the upper-division baccalaureate category, 3 semes-

ter hours in advanced news reporting, 3 in photojournalism, 3 in newspaper production, 3 in media relations, 3 in personnel management, 3 in public relations campaigns, 3 in survey methods, 3 in advanced media relations, 3 in publications management, and 3 in business administration (6/91).

MOS-46R-001

BROADCAST JOURNALIST

46R10
46R20
46R30
46R40

Exhibit Dates: 1/90–Present.

Career Management Field: 46 (Public Affairs).

Description

Summary: Participates in or supervises the operations of a radio and television broadcast center. *Skill Level 10:* Prepares scripts; announces, performs, and gives play-by-play coverage of events; operates broadcast station equipment for newscasts, radio music programs, and broadcast releases; conducts interviews; edits audio programs. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides guidance to subordinates; produces radio/television features, public service announcements, and newscasts; maintains program files and materials; processes traffic and continuity. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as script supervisor, producer, and director of radio and television programs; manages radio and television station and audio/video production and post production facility including field production and remote broadcasting; coordinates audio/video activities for public relations programs and campaigns. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as station manager; coordinates programs and broadcast activities within the Armed Forces Network including feature and documentary productions and network news assignments; responsible for compliance with FCC and international broadcast regulations, audience measurements, and all administrative activities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in audio production, 2 in broadcast news writing, 3 in broadcast production, and 3 in radio announcing. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour in audio production, 2 in broadcast news writing, 3 in broadcast production, and 3 in radio announcing. In the upper-division baccalaureate category, 3 semester hours in broadcast operations and 3 in field production. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (6/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 1 semester hour in audio production, 2 in broadcast news writing, 3 in broadcast production, 3 in radio announcing, and 3 in public relations writing. In the upper-division baccalaureate category, 3 semester hours in broadcast operations, 3 in field production, 3 in

broadcast station management, 3 in personnel management, 3 in advanced broadcast production, and 3 in broadcast programming (6/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 1 semester hour in audio production, 2 in broadcast news writing, 3 in broadcast production, and 3 in radio announcing. In the upper-division baccalaureate category, 3 semester hours in broadcast operations, 3 in field production, 3 in broadcast station management, 3 in personnel management, 3 in advanced broadcast production, 3 in broadcast programming, 3 in public relations writing, 6 in advanced field production, 3 in audience measurement, 3 in advanced station management, 3 in broadcast regulations, and 3 in business administration (6/91).

MOS-46Z-001

PUBLIC AFFAIRS CHIEF

46Z50

Exhibit Dates: 1/90–Present.

Career Management Field: 46 (Public Affairs).

Description

Supervises, manages, and coordinates photographic operations, radio broadcasting, Army command and public affairs programs, and television production; supervises, coordinates, and provides technical assistance in the operation of all media activities; determines equipment and personnel requirements for an activity; serves as liaison with staff, maintenance, and operating personnel; prepares administrative and technical reports; assigns duties; evaluates and supervises training development and on-the-job training; conducts audience research and survey analysis; recommends establishment and modification of operations; ensures that public affairs releases comply with command policy, libel, slander, and copyright laws; presents and evaluates public affairs briefings. NOTE: May have progressed to 46Z50 from 46Q40, Journalist, or 46R40, Broadcast Journalist.

Recommendation

In the upper-division baccalaureate category, 3 semester hours in interpersonal communications, 6 in personnel management, 3 in public relations policy and management, 3 in public affairs planning, 3 in technical writing, and 3 in organizational management (6/91).

MOS-51B-002

CARPENTRY AND MASONRY SPECIALIST

51B10
51B20

Exhibit Dates: 1/90–5/91.

Career Management Field: 51 (General Engineering), subfield 514 (Construction Engineering).

Description

Summary: Performs general and heavy carpentry or masonry duties in the fabrication, erection, maintenance, and repair of wooden and masonry structures and a variety of wooden articles. *Skill Level 10:* Uses basic carpentry tools and materials in building layout, framing, sheathing, fabricating, and roofing wooden structures; assists in erection of rough timber structures such as trestles, bridges, and wharves; assists in repair and renovation of all

types of structures; uses basic masonry tools in construction of concrete walls, piers, and columns; places anchor bolts, rebar, and welded wire mesh; mixes mortar to specifications; lays brick and concrete blocks; maintains concrete mixes; cleans, lubricates, and sharpens wood-working and masonry tools. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; interprets construction drawings and blueprints; computes material requirements and prepares building layout; constructs wooden or concrete foundation and erects building framework; installs flooring, walls, partitions, exterior siding, roofing, and stairs; fabricates and installs doors, windows, and screens; installs interior finishing such as cabinets, hardware, and wallboard; mixes, pours, finishes, and cures concrete; constructs concrete wall, pier, and column forms; selects mix specifications for mortar and grout; selects brick and concrete block pattern and joint type; installs lintels and finishes joints; cuts, trims, and faces stone, brick, and concrete blocks; installs and finishes tile; maintains carpentry and masonry tools and publications.

Recommendation, Skill Level 10

In the vocational certificate category, 9 semester hours in carpentry, 9 in masonry, and 3 in tool use and care (2/80).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in tool use and care, 9 in carpentry, 9 in masonry, and additional credit in carpentry and masonry on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in blueprint reading, 3 in applied mathematics, and 3 in industrial arts (construction methods) (2/80).

MOS-51B-003

CARPENTRY AND MASONRY SPECIALIST

51B10
51B20

Exhibit Dates: 6/91–Present.

Career Management Field: 51 (General Engineering).

Description

Summary: Performs general and heavy carpentry and masonry duties in the fabrication, erection, maintenance, and repair of wooden and masonry structures. *Skill Level 10:* Uses basic carpentry tools in framing, sheathing, fabricating, and roofing wooden structures; uses basic masonry tools in construction of foundations, piers, walls, and columns; uses basic concrete tools for foundations, site work, and slabs; places anchor bolts and steel reinforcement for concrete and masonry; erects buildings, including floor systems, partitions, roofing systems and stairs; installs doors and windows; maintains carpentry, masonry, and concrete tools; assists in erection of rough timber structures; repairs and renovates existing structures; assists in the performance of combat engineering missions. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; interprets blueprints; estimates materials; performs building layout; schedules activities; installs finished carpentry products; performs specialized masonry activities.

In the vocational certificate category, 3 semester hours in soil classification, 3 in concrete mix design, 3 in soil stabilization, and 3 in bituminous mix design. In the lower-division baccalaureate/associate degree category, 3 semester hours in soil and concrete testing laboratory, 3 in concrete and bituminous mix design, and 3 in soil engineering (2/80).

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 3 in blueprint reading, 3 in construction methods, 3 in personnel supervision, 3 in records administration, 3 in construction project planning, and 3 in technical report writing. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in construction project management, 3 in introduction to management, and 6 for field experience in management (2/80).

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in construction methods, 3 in construction management, 3 in personnel supervision, and 2 in records and information management; if progressed from MOS 51K (Plumber) or MOS 51R (Interior Electrician), add 3 semester hours in construction estimating and scheduling. In the upper-division baccalaureate/associate category, 3 semester hours in military science, 3 in construction methods, 3 in construction management, 3 in personnel supervision, and 2 in records and information management; if progressed from MOS 51K (Plumber) or MOS 51R (Interior Electrician), add 3 semester hours in construction estimating and scheduling.

reate category, 3 semester hours for field experience in management and 3 in organizational management (7/91).

MOS-51K-002

PLUMBER

51K10
51K20

Exhibit Dates: 1/90–1/92.

Career Management Field: 51 (General Engineering).

Description

Summary: Installs and repairs plumbing pipe systems and fixtures. **Skill Level 10:** Assists in installation and repair of pipe systems, plumbing fixtures, and equipment; reads and interprets drawings, plans, and specifications; installs, tests, troubleshoots, and repairs pipe systems for water, air, oil, gas, and sewage; services plumbing tools and equipment; assists in laying and clearing minefields; primes and emplaces demolitions; constructs and removes wire, obstacles, emplacements, and bunkers. **Skill Level 20:** Able to perform the duties required for Skill Level 10; installs, maintains, and repairs pipe systems, fixtures, and equipment; explains and demonstrates techniques and procedures used in plumbing and pipefitting; conducts inspections of plumbing facilities.

Recommendation, Skill Level 10

In the vocational certificate category, 9 semester hours in general plumbing. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/85).

Recommendation, Skill Level 20

In the vocational certificate category, 12 semester hours in general plumbing (9/85).

MOS-51K-003

PLUMBER

51K10
51K20

Exhibit Dates: 2/92–Present.

Career Management Field: 51 (General Engineering).

Description

Summary: Installs and repairs plumbing pipe systems and fixtures. **Skill Level 10:** Assists in installation and repair of pipe systems, plumbing fixtures, and equipment; reads and interprets drawings, plans, and specifications; installs, tests, troubleshoots, and repairs pipe systems for water, air, oil, gas, and sewage; services plumbing tools and equipment; assists in laying and clearing minefields; primes and emplaces demolitions; constructs and removes wire, obstacles, emplacements, and bunkers. **Skill Level 20:** Able to perform the duties required for Skill Level 10; installs, maintains, and repairs pipe systems, fixtures, and equipment; explains and demonstrates techniques and procedures used in plumbing and pipefitting; conducts inspections of plumbing facilities; draws plumbing plans; coordinates and schedules plumbing activities, and prepares materials take-off lists and estimates; supervises squad of approximately six persons.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (2/92).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in blueprint reading and drawing, 3 in plumbing and piping systems, 3 in personnel supervision, and 3 in estimating and scheduling. (NOTE: This recommendation for skill level 20 is valid for the dates 2/92-2/95 only) (2/92).

MOS-51M-002

FIREFIGHTER

51M10
51M20
51M30
51M40

Exhibit Dates: 1/90–5/91.

Career Management Field: 51 (General Engineering), subfield 513 (Fire Protection).

Description

Summary: Supervises or performs fire fighting, rescue, salvage, and fire protection operations. **Skill Level 10:** Operates all types of fire extinguishers for different types of fires; administers first aid; performs basic fire fighting duties including selection of nozzles and hoses for applying water or fog stream on various types of fires; maintains fire fighting equipment; operates fire fighting vehicles. **Skill Level 20:** Able to perform the duties required for Skill Level 10; conducts performance-oriented training sessions; performs as general crew chief in fire fighting and investigation of fires. **Skill Level 30:** Able to perform the duties required for Skill Level 20; performs the duties of fire chief/fire inspector; supervises fire prevention; supervises equipment maintenance; monitors and evaluates training procedures; inspects for fire regulation violations; serves as principal noncommissioned officer of fire company or team chief of crash rescue team of four or more persons. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises and directs fire fighting and rescue units; identifies type of fires; recommends and enforces fire prevention regulations; inspects building facilities and installations after fires to determine damage and cause of fires; maintains records and reports; supervises two or more fire companies.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to fire science and 1 in first aid (2/80).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to fire science, 3 in fire prevention, and 2 in first aid (2/80).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to fire science, 6 in fire prevention, 2 in first aid, 3 in fire investigation, and 3 in fire administration. In the upper-division baccalaureate category, 3 semester hours in personnel management (2/80).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to fire science, 6 in fire prevention, 2 in first aid, 6 in fire investigation, 6 in fire administration, and 3 in technical report writing or communication. In the upper-division baccalaureate

category, 3 semester hours in personnel management, and 3 for field experience in management (2/80).

MOS-51M-003

FIREFIGHTER

51M10
51M20
51M30
51M40

Exhibit Dates: 6/91–2/95.

Career Management Field: 51 (General Engineering).

Description

Summary: Supervises or performs fire fighting, rescue, salvage, and fire protection operations. **Skill Level 10:** Operates all types of fire extinguishers for different types of fires; administers first aid; performs basic fire fighting duties including selection of nozzles and hoses for applying water, foam, or fog stream on various types of fires; maintains fire fighting equipment; operates fire fighting vehicles. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises and instructs subordinates; conducts performance-oriented training sessions; performs as general crew chief in fire fighting and investigation of fires; handles hazardous material and chemical spills; performs first aid procedures; performs maintenance on pneumatic equipment. **Skill Level 30:** Able to perform the duties required for Skill Level 20; performs the duties of fire chief/fire inspector; supervises fire prevention; supervises equipment maintenance; monitors and evaluates training procedures; inspects for fire regulation violations; serves as principal noncommissioned officer of fire company or team chief of aircraft and vehicle crash rescue team of four or more persons. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises and directs fire fighting and rescue units; identifies type of fires; recommends and enforces fire prevention regulations; inspects building facilities and installations after fires to determine damage and cause of fires; maintains records and reports; supervises two or more fire companies.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to fire science, 3 in fire/crash rescue, and 2 in first aid. (NOTE: This recommendation for skill level 10 is valid for the dates 6/91-9/91 only) (7/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to fire science, 3 in fire/crash rescue, 3 in fire prevention, 2 in first aid, and 3 in personnel supervision (7/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to fire science, 3 in fire/crash rescue, 3 in fire prevention, 3 in first aid, 3 in personnel supervision, 3 in fire investigation, 3 in fire administration, and 3 in technical communication. In the upper-division baccalaureate category, 3 semester hours for field experience in management (7/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to fire science, 3 in fire/crash rescue, 6 in fire prevention, 3 in first aid, 3 in personnel supervision, 6 in fire investigation, 3 in fire administration, and 3 in technical communication. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (7/91).

MOS-51M-004**FIREFIGHTER**

51M10
51M20
51M30
51M40

Exhibit Dates: 3/95–Present.

Career Management Field: 51 (General Engineering).

Description

Summary: Supervises or performs fire fighting, rescue, salvage, and fire protection operations. **Skill Level 10:** Operates all types of fire extinguishers for different types of fires; administers first aid; performs basic fire fighting duties including selection of nozzles and hoses for applying water, foam, or fog stream on various types of fires; maintains fire fighting equipment; operates fire fighting vehicles. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises and instructs subordinates; conducts performance-oriented training sessions; performs as general crew chief in fire fighting and investigation of fires; handles hazardous material and chemical spills; performs first aid procedures; performs maintenance on pneumatic equipment. **Skill Level 30:** Able to perform the duties required for Skill Level 20; performs the duties of fire chief/fire inspector; supervises fire prevention; supervises equipment maintenance; monitors and evaluates training procedures; inspects for fire regulation violations; serves as principal noncommissioned officer of fire company or team chief of aircraft and vehicle crash rescue team of four or more persons. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises and directs fire fighting and rescue units; identifies type of fires; recommends and enforces fire prevention regulations; inspects building facilities and installations after fires to determine damage and cause of fires; maintains records and reports; supervises two or more fire companies.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (7/91).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (7/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to fire science, 3 in fire/crash rescue, 3 in fire prevention, 2 in first aid, 3 in personnel supervision, 3 in fire administration, and 3 in technical communication. In the upper-division baccalaureate category, 3 semester hours for field experience in management (7/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to fire science, 3 in fire/crash rescue, 6 in fire prevention, 3 in first aid, 3 in personnel supervision, 3 in fire investigation, 3 in fire administration, and 3 in technical communication. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (7/91).

MOS-51R-003**INTERIOR ELECTRICIAN**

51R10
51R20

Exhibit Dates: 1/90–1/92.

Career Management Field: 51 (General Engineering).

Description

Summary: Supervises or installs and maintains interior electrical systems and equipment; installs conduit service drops, fuse panels, switches, outlet, and lighting according to National Electrical Code. **Skill Level 10:** Installs service entrances from weatherhead to service panel and branch circuits; service protective panels; function and outlet boxes; thin wall, flexible, rigid, metallic, and nonmetallic conduit; metallic and nonmetallic sheathed cable; and switches, outlets, and special electrical equipment; uses test equipment, including multimeter, voltmeter, ammeter, and megger to test circuits. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises installation and maintenance of interior electrical systems; provides technical guidance to subordinates; plans system layout using blueprints, sketches, specifications, and wiring diagrams; inspects systems for proper installation in accordance with the National Electrical Code.

Recommendation, Skill Level 10

In the vocational certificate category, 4 semester hours in residential wiring. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90–9/91 only) (9/85).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in residential wiring (9/85).

MOS-51R-004**INTERIOR ELECTRICIAN**

51R10
51R20

Exhibit Dates: 2/92–Present.

Career Management Field: 51 (General Engineering).

Description

Summary: Supervises or installs and maintains interior electrical systems and equipment; installs conduit service drops, fuse panels, switches, outlets, and lighting according to National Electrical Code. **Skill Level 10:** Reads and interprets drawings, plans, and specifications; installs service entrances from weatherhead to service panel and branch circuits; service protective panels; function and outlet boxes; thin wall, flexible, rigid, metallic, and nonmetallic conduit; metallic and nonmetallic sheathed cable; and switches, outlets, and special electrical equipment; uses test equipment including multimeter, voltmeter, ammeter, and

megger to test circuits. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises installation and maintenance of interior electrical systems; provides technical guidance to subordinates; plans system layout using blueprints and wiring diagrams; prepares sketches, plans, and specifications; prepares material take-off lists and estimates; coordinates and schedules electrical wiring activities; inspects systems for proper installation in accordance with the National Electrical Code; supervises squad of approximately six persons.

Recommendation, Skill Level 10

Credit may be granted on the basis of individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in blueprint reading and drawing, 3 in basic electrical wiring, 3 in personnel supervision, and 3 in estimating and scheduling. (NOTE: This recommendation for skill level 20 is valid for the dates 2/92–2/95 only) (2/92).

MOS-51T-001**TECHNICAL ENGINEERING SUPERVISOR**

51T30
51T40

Exhibit Dates: 1/90–5/91.

Career Management Field: 51 (General Engineering), subfield 511 (Technical Engineering).

Description

Summary: Supervises or participates in construction site development, including technical investigation surveying, developing construction plans and specifications, and performing quality control inspections. **Skill Level 30:** Supervises construction surveying, drafting, and testing of construction materials; conducts surveys and preliminary engineering inspections; prepares layouts and detail drawings of pavements, structures, buildings, and utility systems from sketches and specified design criteria. Assists in inspection of all phases of construction and repair. NOTE: May have progressed to 51T30 from 51G20 (Materials Quality Specialist), 82B (Construction Surveyor), or 81B (Technical Drafting Specialist). **Skill Level 40:** Able to perform the duties required for Skill Level 30; provides technical guidance to subordinates; plans and supervises preparation and layout of drawings; performs simple load calculations to ensure construction of safe facilities; prepares network flow diagrams, such as critical path method.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in civil engineering technology, 3 in materials testing, 3 in introduction to surveying, 3 in personnel supervision, and 6 in engineering drafting (2/80).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in civil engineering technology, 3 in materials testing, 3 in introduction to surveying, 3 in personnel supervision, and 6 in engineering drafting. In the upper-division baccalaureate category, 3 semester hours in engineering management and 6 in construction project planning (2/80).

MOS-51T-002

TECHNICAL ENGINEERING SUPERVISOR
51T30
51T40

Exhibit Dates: 6/91–1/94.

Career Management Field: 51 (General Engineering).

Description

Summary: Supervises construction site development, including technical investigation surveying, developing construction plans and specifications, and performing quality control inspections. **Skill Level 30:** Supervises construction materials; conducts surveys and preliminary engineering inspections; prepares layouts and detail drawings of pavements, structures, buildings, and utility systems from sketches and specified design criteria; assists in inspection of all phases of construction and repair. **NOTE:** May have progressed to 51T30 from 51G20 (Materials Quality Specialist), 81B20 (Technical Drafting Specialist), or 82B20 (Construction Surveyor). **Skill Level 40:** Able to perform the duties required for Skill Level 30; provides technical guidance to subordinates; plans and supervises preparation and layout of drawings; performs simple load calculations to ensure construction of safe facilities; prepares network flow diagrams such as critical path method; has knowledge of asphalt and concrete quality testing procedures.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, 3 in maintenance management, 2 in records and information management, 3 in construction plans and specifications, 3 in surveying, and 3 in soil mechanics (7/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, 3 in maintenance management, 2 in records and information management, 3 in construction plans and specifications, 3 in surveying, and 3 in soil mechanics. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (7/91).

MOS-51T-003

TECHNICAL ENGINEERING SPECIALIST
51T30
51T40

Exhibit Dates: Pending Evaluation. 2/94–Present.

MOS-51Z-001

GENERAL ENGINEERING SUPERVISOR
51Z50

Exhibit Dates: 1/90–5/91.

Career Management Field: 51 (General Engineering), subfield 510 (General Engineering).

Description

Provides staff supervision to units engaged in structural building and repair and provision of water and utilities services; serves as principal noncommissioned officer in an engineering combat (heavy) company or in an engineer combat battalion; may serve in an engineer section at engineer brigade or higher headquarters;

directs and coordinates activities of staff personnel to ensure proper integration of all construction and utility operations; assists in appraisal of training status, construction planning, and material requests; inspects structural facilities and water and utility production and distribution systems; supervises performance of combat engineer missions. **NOTE:** May have progressed to 51Z50 from 51T40 (Technical Engineering Supervisor), 52E40 (Prime Power Production Specialist), 51P40 (Utilities Engineering Supervisor), 51M40 (Firefighter), 51H40 (Construction Engineering Supervisor), 00B40 (Diver), 62N40 (Construction Equipment Supervisor), or 53B40 (Industrial Gas Production Specialist).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in records administration, 3 in technical mathematics, 3 in technical writing, 3 in industrial technology, 3 in human relations, and 3 in personnel supervision. In the upper-division baccalaureate category, 6 semester hours in construction management, 3 in personnel management, 6 for field experience in management, and additional credit in engineering and management on the basis of institutional evaluation (2/80).

MOS-51Z-002

GENERAL ENGINEERING SUPERVISOR
51Z50

Exhibit Dates: 6/91–Present.

Career Management Field: 51 (General Engineering).

Description

Provides staff supervision to units engaged in structural building and repair and provision of water and utility services; serves as principal noncommissioned officer in an engineering combat (heavy) company or in an engineer combat battalion; may serve in an engineer section at engineer brigade or higher headquarters; directs and coordinates activities of staff personnel to insure integration of all construction and utility operations; assists in appraisal of training status, construction planning, and material requests; inspects structural facilities and water and utility production and distribution systems; supervises performance of skill level 40 of MOS 00B (Diver), 51H (Construction Engineering Supervisor), 51M (Firefighter), 51T (Technical Engineering Supervisor), 52E (Prime Power Production Specialist), 52G (Transmission and Distribution Specialist), or 62N (Construction Equipment Supervisor).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in technical communication, and 3 in records and information management. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in organizational management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communications techniques for management (7/91).

MOS-52C-004

UTILITIES EQUIPMENT REPAIRER
52C10
52C20
52C30

Exhibit Dates: 1/90–2/95.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Supervises or performs maintenance on refrigeration equipment, air conditioning units, multifuel forced air heaters, high-pressure air compressors, gasoline and diesel engines, and electrical motors. **Skill Level 10:** Maintains primarily equipment that does not require disassembly for repair; maintenance duties may include some system or equipment disassembly. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises four or five subordinates; supervises maintenance and performs repairs requiring system disassembly, replacing of parts, and rebuilding. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises 25–50 persons; performs depot maintenance, tests, and approves repairs; schedules training; prepares maintenance schedules and inspection reports. May progress to 52C30 from 52C20 or 63J20 (Quartermaster and Chemical Equipment Repairer).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in electrical laboratory. In the lower-division baccalaureate/associate degree category, 3 semester hours in air conditioning/refrigeration, 3 in small engine repair, and 3 in power mechanics. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/90–9/91 only) (7/88).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in electrical laboratory. In the lower-division baccalaureate/associate degree category, 5 semester hours in air conditioning/refrigeration, 3 in small engine repair, and 3 in power mechanics (7/88).

Recommendation, Skill Level 30

In the vocational certificate category, if progressed to 52C30 from 52C20, use the following credit recommendation: 3 semester hours in electrical laboratory. If progressed to 52C30 from 63J20, use the following credit recommendation: 1 semester hour in basic electricity laboratory. In the lower-division baccalaureate/associate degree category, if progressed to 52C30 from 52C20, use the following credit recommendation: 6 semester hours in air conditioning/refrigeration, 3 in small engine repair, 3 in power mechanics, 3 in personnel supervision, and 3 in maintenance management. If progressed to 52C30 from 63J20, use the following credit recommendation: 3 semester hours in small appliance repair, 1 in use and care of hand tools, 1 in use of testing equipment, 3 in personnel supervision, and 3 in maintenance management (7/88).

MOS-52C-005

UTILITIES EQUIPMENT REPAIRER
52C10
52C20
52C30

Exhibit Dates: 3/95–Present.

Career Management Field: 63 (Mechanical Maintenance)

Description

Summary: Supervises or performs maintenance on refrigeration equipment, air conditioning units, multifuel forced air heaters, high-pressure air compressors, gasoline and diesel engines, and electrical motors. **Skill Level 10:** Maintains primarily equipment that does not require disassembly for repair; maintenance duties may include some system or equipment disassembly. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises four or five subordinates; supervises maintenance and performs repairs requiring system disassembly, replacing of parts, and rebuilding. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises 25-50 persons; performs depot maintenance, tests, and approves repairs; schedules training; prepares maintenance schedules and inspection reports. May progress to 52C30 from 52C20 or 63J20 (Quartermaster and Chemical Equipment Repairer)

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (7/88).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (7/88).

Recommendation, Skill Level 30

In the vocational certificate category, if progressed to 52C30 from 52C20, use the following credit recommendation: 3 semester hours in electrical laboratory. If progressed to 52C30 from 63J20, use the following credit recommendation: 1 semester hour in basic electricity laboratory. In the lower-division baccalaureate/associate degree category, if progressed to 52C30 from 52C20, use the following credit recommendation: 5 semester hours in air conditioning/refrigeration, 3 in small engine repair, 3 in power mechanics, 3 in personnel supervision, and 3 in maintenance management. If progressed to 52C30 from 63J20, use the following credit recommendation: 2 semester hours in small appliance repair, 1 in use and care of hand tools, 1 in use of testing equipment, 3 in personnel supervision, and 3 in maintenance management (7/88).

MOS-52D-003

POWER GENERATION EQUIPMENT REPAIRER

52D10
52D20
52D30

Exhibit Dates: 1/90–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Supervises or maintains and overhauls power generation equipment. **Skill Level 10:** Maintains engines by adjusting valves, carburetors, ignition points, alternators, regulators, and solenoids; performs maintenance services such as lubrication, oil change, and radiator flushes; repairs small motor generators. **Skill Level 20:** Able to perform the duties required for Skill Level 10; repairs or overhauls starters, alternators, generators, voltage regulators, and control circuits; maintains and repairs diesel engines. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises

subordinates, instructs in the use of tools and test equipment, conducts maintenance training and assigns duties.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in electrical laboratory. In the lower-division baccalaureate/associate degree category, 3 semester hours in small engine repair (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/85).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in electrical laboratory. In the lower-division baccalaureate/associate degree category, 3 semester hours in small engine repair, 3 in power generation equipment repair, and 3 in diesel engine maintenance. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (9/85).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in electrical laboratory. In the lower-division baccalaureate/associate degree category, 3 semester hours in small engine repair, 3 in power generation equipment repair, 3 in diesel engine maintenance, 3 in personnel supervision, and 3 in maintenance management (9/85).

MOS-52E-002

PRIME POWER PRODUCTION SPECIALIST

52E20
52E30
52E40

Exhibit Dates: 1/90–9/90.

Career Management Field: 51 (General Engineering), subfield 512 (Utilities Engineering).

Description

Summary: NOTE: MOS 52E contains four specialties. Each specialty is identified by an Additional Skill Identifier (ASI), a letter and a number appended to the MOS designation. For example, appending ASI S2 to the MOS designation (52E20S2) designates the Nuclear Power Plant Mechanic specialty. Addition of ASI S3 designates Nuclear Power Plant Electrician; ASI S4, Nuclear Power Plant Instrument Repairer; and ASI S5, Nuclear Power Plant Health Physicist. General duties for all skill levels of MOS 52E are described below, followed by a specific description for each specialty. Individuals holding this MOS supervise, operate, install, and maintain electric power plant and associated auxiliary systems and equipment; inspect, adjust, repair, and replace equipment/systems. **Skill Level 20:** Assists in the operation and maintenance of prime power plants and auxiliary systems and equipment; assists in starting, stopping, and regulating diesel engine, gas engine, and turbine engine driven generators to obtain power output or perform emergency procedures; assists in controlling instrumentation, power conversion equipment, station service electrical system, associated pumps, and chemical feed systems; observes and interprets instrument readings; maintains records of routine and unusual indications; adjusts temperatures, pressures, flow rates, and process liquid levels by regulating appropriate controls; operates controls to minimize or eliminate hazards associated with radiation exposure, high pressure steam, and high voltages; inspects, tests, and performs operator

preventive maintenance on nuclear and conventional power plant equipment and auxiliary systems and equipment. **Skill Level 30:** Able to perform the duties required for Skill Level 20; operates and maintains prime power plant; establishes start up condition in power plants, auxiliary systems, and equipment; starts, stops, and regulates diesel engine, gas engine, and turbine engine driven generators to obtain power output or perform emergency procedures, introduces control instrumentation, power conversion equipment, station service electrical systems, associated pumps, and chemical feed systems; brings plant to full power; manipulates nuclear power controls to adjust temperatures, pressures, flow rates, and process liquid levels; performs operator preventive maintenance on nuclear and conventional power plant equipment, auxiliary systems, and equipment; conducts on-the-job training; assists in establishing priorities and planning and scheduling work assignments; assists in establishing shop practices and inspection procedures; performs as shift supervisor in conventional power plant; provides technical guidance to subordinates. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises operation and maintenance of prime power plants and equipment; operates control room in power plant; supervises preventive maintenance on nuclear/conventional power plant equipment, auxiliary systems, and equipment; supervises on-the-job training; plans, coordinates, and schedules work assignments, priorities, shop practices, and inspection procedures; spot checks work performance and informs subordinates of corrective action; prepares technical reports. For all skill levels: If ASI is S2, Nuclear Power Plant Mechanic, performs the following duties: installs, adjusts, repairs, replaces, and tests the operation of power plant mechanical equipment such as diesel engines, gas turbines, steam turbines, oil-fired high- and low-pressure boilers, oil purification systems, fuel and oil storage and transfer systems, air compressors, pumps, valves, heat exchangers, governing systems, piping systems, and hoisting equipment; performs nondestructive tests on equipment, components, and systems; fabricates parts by machining and welding metals and alloys; employs hand tools, precision-measuring devices, and electrical and pneumatic power tools; interprets schematics and mechanical drawings of equipment and systems to solve maintenance problems; performs as a member of refueling team and assists in preparing radioactive material for shipment and storage; performs scheduled and preventive maintenance on equipment and ensures historical and mechanical records are kept current. If ASI is S3, Nuclear Power Plant Electrician, performs the following duties: applies National Electric Code provisions that govern installation, modification, and repair of electrical wiring and equipment in power plants; employs safety practices while performing electrical maintenance; to solve maintenance problems, traces wiring and equipment diagrams related to plant electrical equipment and power distribution systems; troubleshoots electrical equipment by interpreting visual, mechanical, and audible symptoms; interprets mechanical and electrical problems that involve algebraic formulas; wires, repairs, and tests operation of switch gear, circuit breakers, motors, generators, transformers, high- and low-voltage distributors, transmission systems, and protective

and synchronizing devices of power plant equipment; solders connections, splices cables, and makes cable and wire runs; installs, maintains, and troubleshoots batteries, inverters, battery chargers and motor generators; calibrates and maintains protective relays and associated auxiliary current transformers, potential transformers control wiring for generators, transformers, and motors; employs equipment such as multimeters, clamp-on ammeters, meggers, high pot tester, phase rotation indicators, oscilloscopes, and protective relay tests sets; performs scheduled preventive maintenance on electrical equipment/components and ensures that historical and maintenance records are kept current; assists in refueling operations and preparing radioactive materials for storage and shipment. If ASI is S4, Nuclear Power Plant Instrument Repairer, performs the following duties: troubleshoots all types of nuclear power plant instrumentation systems using schematic and wiring diagrams; installs, calibrates, repairs, adjusts, and test instrumentation and control equipment; installs electrical, electronic, and pneumatic instruments; calibrates control, regulatory, and electronic instruments; repairs or replaces circuit wiring, coaxial cables, vacuum tubes, semiconductors, and saturable core devices; employs equipment such as multimeters, oscilloscopes, transistor test sets, signal generators, and pressure and vacuum comparators; adjusts and aligns conventional and solid state electrical and electronic devices and pneumatic instruments used for motivation and control in other components of systems; interprets mechanical and electrical problems that involve algebraic formulas; interprets radiation survey instrument readings; performs scheduled preventive maintenance on equipment and maintains historical and maintenance records; assists in refueling operations and preparing radioactive materials for storage and shipment. If ASI is S5, Nuclear Power Plant Health Physicist, performs the following duties: monitors and treats process fluids for radioactivity and other impurities; prepares reagents to chemical standards; applies techniques for volumetric, gravimetric, colorimetric, and radiochemical analysis of water; operates testing equipment and keeps it in operating condition; determines alpha, beta, gamma, and neutron activities in air, water, and solid samples; converts radiation levels into millicuries; interprets results in relation to maximum permissible concentrations prescribed by regulations; computes radiation levels, exposure time limits, accumulated dosages, and radiation counter efficiencies; employs slide rule, logarithm tables, and chemical and algebraic formulas; performs decontamination procedures; establishes and monitors plant radiological safety program; ensures that scheduled preventive maintenance on radiation monitoring equipment is performed; maintains historical and maintenance records; assists in refueling operations and preparing radioactive materials for storage and shipment.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in the use and care of hand and power tools. In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial safety and 6 in troubleshooting techniques (mechanical and electrical). If ASI is S2 (Mechanic), see exhibit AR-1720-0004 in the Army courses volume of the GUIDE. If ASI

is S3 (Electrician), see exhibit AR-1720-0003. If ASI is S4 (Instrument Repairer), see exhibit AR-1720-0005. If ASI is S5 (Health Physicist), see exhibit AR-1720-0002 (8/81).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in the use and care of hand and power tools. In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial safety, 6 in troubleshooting techniques (mechanical and electrical), 3 in human relations, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 in industrial safety. If ASI is S2 (Mechanic), see exhibit AR-1720-0004 in the Army courses volume of the GUIDE. If ASI is S3 (Electrician), see exhibit AR-1720-0003. If ASI is S4 (Instrument Repairer), see exhibit AR-1720-0005. If ASI is S5 (Health Physicist), see exhibit AR-1720-0002 (8/81).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in use and care of hand and power tools and 2 in technical writing. In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial safety, 6 in troubleshooting techniques (mechanical and electrical), 3 in human relations, 3 in personnel supervision, 3 in introduction to management, and 2 in technical report writing. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in industrial safety, 3 for field experience in management, and 3 in management problems. If ASI is S2 (Mechanic), see exhibit AR-1720-0004 in the Army courses volume of the GUIDE. If ASI is S3 (Electrician), see exhibit AR-1720-0003. If ASI is S4 (Instrument Repairer), see exhibit AR-1720-0005. If ASI is S5 (Health Physicist), see exhibit AR-1720-0002 (8/81).

MOS-52E-003

PRIME POWER PRODUCTION SPECIALIST

52E20

52E30

52E40

Exhibit Dates: 10/90–Present.

Career Management Field: 51 (General Engineering).

Description

Summary: NOTE: MOS 52E contains three specialties. Each specialty is identified by an Additional Skill Identifier (ASI), a letter and a number appended to the MOS designation (e.g., 52E20E5). ASI E5 designates Instrument Maintenance (Power Station), ASI S2 designates Mechanical Equipment Maintenance (Power Station), and ASI S3 designates Electrical Equipment Maintenance (Power Station). General duties for all skill levels are described below, followed by a specific description for each specialty. Individuals holding this MOS supervise, operate, install, and maintain electric power plants and associated auxiliary systems and equipment. **Skill Level 20:** Operates and maintains electric power plants; performs start-up in power plants and auxiliary systems and equipment; starts, stops, and regulates diesel, gas, and turbine driven generators to obtain power output or perform emergency procedures; controls power conversion equipment, station service electrical system, associated pumps, and chemical feed systems; observes

equipment operating parameters; interprets instrumentation data; adjusts temperatures, pressures, flow rates, and processed liquid levels by regulating appropriate controls; operates regulatory controls to minimize or eliminate hazards to high pressure steam and high voltages; diagnoses plant equipment/system abnormalities by interpreting fault indicators, applying troubleshooting techniques, and identifying faulty assemblies and components; determines malfunctions by using diagnostic test and troubleshooting procedures; performs scheduled maintenance; repairs or overhauls generating equipment and associated components; prepares maintenance data work sheets; selects, uses, and cares for common hand and shop tools; applies work and fire safety practices, precautions, and procedures; maintains CPR qualification; uses appropriate word processing, data base management, and spread sheet software. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides technical guidance to subordinates; coordinates changes in plant equipment/power systems; inventories equipment and supplies; prepares reports; enforces power plant and maintenance shop safety program; serves as technical inspector; determines and isolates complex malfunctions; performs quality assurance inspections. **Skill Level 40:** Able to perform the duties required for Skill Level 30; inspects plant site for proper preparations and placement of generating units; coordinates, plans, and schedules team activities; evaluates team safety program; maintains accountability of team's supplies and equipment; prepares power station team standard operating procedures; ensures licensing of equipment operators; evaluates management of plant operation and maintenance personnel; estimates manpower, equipment, and material necessary to accomplish installation of power station and construction of associated systems.

If ASI is E5, Instrument Maintenance, performs the following duties: troubleshoots all types of power plant instrumentation systems, using schematic and wiring diagrams; installs, calibrates, repairs, adjusts, and tests instrumentation and control equipment; installs electrical, electronic, and pneumatic instruments; calibrates control, regulatory, and electronic instruments; repairs or replaces circuit wiring, coaxial cables, semiconductors, and saturable core devices; uses multimeters, oscilloscopes, transistor test sets, signal generators, and pressure and vacuum comparators; adjusts and aligns conventional and solid state electrical and electronic devices and pneumatic actuators used for motivation and control in other components of system; interprets and solves mechanical and electrical problems using algebraic formulas; performs scheduled preventive maintenance on equipment; maintains historical and maintenance records; assists in refueling operations and preparing materials for storage and shipment.

If ASI is S2, Mechanical Equipment Maintenance, performs the following duties; installs, adjusts, repairs, replaces, and tests the operation of power plant mechanical equipment such as diesel engines, gas turbines, oil-fired high- and low-pressure boilers, oil purification systems, fuel and oil storage and transfer systems, air compressors, air conditioners and heat pumps, valves, heat exchangers, governing systems, piping systems, and hoisting equipment; per-

forms nondestructive tests on equipment, components, and systems; fabricates parts by machining and welding (arc, gas, TIG) metals and alloys; uses hand tools, precision measuring devices, and electrical and pneumatic power tools; interprets schematics and mechanical drawings of equipment and systems to solve maintenance problems; performs as a member of refueling team and assists in preparing material for shipment and storage; performs scheduled and preventive maintenance on equipment; maintains historical and mechanical records.

If ASI is S3, Electrical Equipment Maintenance, performs the following duties: applies National Electric Code provisions that govern installation, modification, and repair of electrical wiring and equipment in power plants; employs work safety practices while performing electrical maintenance; to solve maintenance problems, traces wiring and equipment diagrams related to plant electrical equipment by interpreting visual, mechanical, and audible symptoms; interprets and solves mechanical and electrical problems using algebraic formulas; wires, repairs, and tests operations of switch gear, circuit breakers, motors, generators, transformers, high- and low-voltage distributors, transmission systems, and protective and synchronizing devices of power plant equipment; solders connections, splices cables, and makes cable and wire runs; installs, maintains, and troubleshoots batteries, inverters, battery chargers, and motor generators; calibrates and maintains protective relays and associated auxiliary current transformers, potential transformers, control wiring for generators, transformers, and motors; uses multimeters, clamp-on ammeters, meggers, high pot tester, phase rotation indicators, oscilloscopes, and protective relay test sets; performs scheduled preventive maintenance on electrical equipment/components; maintains historical and maintenance records; assists in refueling operations and preparing materials for storage and shipment.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in use and care of hand and power tools. In the lower-division baccalaureate/associate degree category, 3 semester hours in computer software applications, 2 in emergency medical training, 3 in power plant troubleshooting and maintenance, 3 in industrial safety, 2 in records and information management, 2 in personnel supervision, and 2 in report writing. If ASI is E5 (Instrument Maintenance), see exhibit AR-1720-0010 in the Army courses volume of the GUIDE. If ASI is S2 (Mechanical Equipment Maintenance), see exhibit AR-1720-0011. If ASI is S3 (Electrical Equipment Maintenance), see exhibit AR-1720-0009 (7/93).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in use and care of hand and power tools. In the lower-division baccalaureate/associate degree category, 3 semester hours in computer software applications, 2 in emergency medical training, 6 in power plant troubleshooting and maintenance, 3 in industrial safety, 2 in records and information management, 3 in personnel supervision, and 2 in report writing. If ASI is E5 (Instrument Maintenance), see exhibit AR-1720-0010 in the Army courses volume of the GUIDE. If ASI is S2

(Mechanical Equipment Maintenance), see exhibit AR-1720-0011. If ASI is S3 (Electrical Equipment Maintenance), see exhibit AR-1720-0009 (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (7/93).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in the use of hand and power tools. In the lower-division baccalaureate/associate degree category, 3 semester hours in computer software applications, 2 in emergency medical training, 6 in power plant troubleshooting and maintenance, 3 in industrial safety, 2 in records and information management, 3 in personnel supervision, and 2 in report writing. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in logistics management. If ASI is E5 (Instrument Maintenance), see exhibit AR-1720-0010 in the Army courses volume of the GUIDE. If ASI is S2 (Mechanical Equipment Maintenance), see exhibit AR-1720-0011. If ASI is S3 (Electrical Equipment Maintenance), see exhibit AR-1720-0009 (7/93).

MOS-52G-001

TURBINE ENGINE DRIVEN GENERATOR REPAIRER

52G10
52G20
52G30
52G40

Exhibit Dates: 1/90–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Performs or supervises maintenance and overhaul of turbine engine driven generator sets and turbine engine prime movers of tactical generator sets. **Skill Level 10:** Performs maintenance on turbine engine driven generator and associated equipment including turbine engines used as prime movers on other units; troubleshoots mechanical and electrical systems; interprets schematic diagrams. **Skill Level 20:** Able to perform the duties required for Skill Level 10; repairs or overhauls components and assemblies including starters, generators, fuel pumps, exciters, AC and DC voltage regulators, electric and electronic load-sensing governors, contactors, switches, and control circuits; diagnoses faults in systems and components. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides technical assistance, guidance, and supervision to subordinates; plans and organizes work schedules and assigns duties; establishes maintenance priorities and allocates work loads; performs final inspection and testing of repaired equipment; conducts on-the-job training.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in electrical laboratory. In the lower-division baccalaureate/associate degree category, 3 semester hours in turbine engine maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/85).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in electrical laboratory. In the lower-division baccalaureate/associate degree category, 6 semester hours in turbine engine maintenance. (NOTE: This recommendation

for skill level 20 is valid for the dates 1/90-2/95 only) (9/85).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in electrical laboratory. In the lower-division baccalaureate/associate degree category, 6 semester hours in turbine engine maintenance, 3 in personnel supervision, and 3 in maintenance management (9/85).

MOS-52G-001

TRANSMISSION AND DISTRIBUTION SPECIALIST

52G10
52G20
52G30
52G40

Exhibit Dates: 1/90–Present.

Career Management Field: 51 (General Engineering).

Description

Summary: Supervises or installs and maintains electrical distribution systems. **Skill Level 10:** Installs and maintains electrical power distribution systems including poles, transformers, guy wires, and service drops. **Skill Level 20:** Able to perform the duties required for Skill Level 10; inspects, maintains, and repairs hot or power-on transmission systems; repairs, calibrates, and tests substation equipment. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises subordinates; supervises power line and security/airport lighting installation; supervises operator maintenance on equipment and tools; insures adherence to proper safety and clearance procedures. **Skill Level 40:** Able to perform the duties required for Skill Level 30; estimates project manpower, equipment, and material requirements; coordinates work, maintenance, and planning schedules; advises on construction and maintenance procedures and safety training.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in power line installation and maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/85).

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in power line installation and maintenance. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (9/85).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in power line installation and maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 in maintenance management (9/85).

Recommendation, Skill Level 40

In the vocational certificate category, 4 semester hours in power line installation and maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours for field experience in management (9/85).

MOS-52X-001SPECIAL PURPOSE EQUIPMENT REPAIRER
52X40**Exhibit Dates:** 1/90–Present.**Career Management Field:** 63 (Mechanical Maintenance).**Description**

Manages special purpose equipment repair facilities; special purpose equipment includes utilities equipment (air conditioning, heating, refrigeration), power generation equipment, turbine engine driven generators, and quartermaster and chemical equipment; supervises 25-60 persons; plans and organizes work area layout; applies production and quality control principles and procedures; trains and advises subordinates; performs administrative duties including control of maintenance publication file and supervision of the preparation of records and reports.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (7/88).

MOS-54B-002

CHEMICAL OPERATIONS SPECIALIST

54B10

54B20

54B30

54B40

54B50

Exhibit Dates: 1/90–Present.**Career Management Field:** 54 (Chemical).**Description**

Summary: Supervises or operates and maintains both smoke generating equipment and nuclear, biological, and chemical (NBC) detection and decontamination equipment; assists in the establishment, administration, and application of NBC defense measures. *Skill Level 10:* Participates in preparation and operation of smoke generating equipment; performs NBC reconnaissance; operates and maintains identification/detection and decontamination equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; plans and organizes smoke generating fuel supply team work schedules; assigns duties; instructs and supervises subordinates in work techniques and procedures; supervises reconnaissance/decontamination operations and serves as company NBC operations noncommissioned officer; prepares and evaluates reports; conducts training; assists in computation of radiation factors; observes operating efficiency and preparedness of unit; prepares, processes, and distributes NBC intelligence reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; controls and coordinates supply and resupply efforts; supervises and coordinates maintenance of assigned equipment; responsible for reports concerning fuel and fog oil supplies; computes and plots NBC data; supervises reconnaissance and decontamination squads, and serves as an advisor. *Skill Level 40:* Able to perform the duties required for Skill Level 30; plans and organizes smoke platoon operations; assigns work to subordinates according to their capabilities; establishes priorities and inspects smoke

production for compliance with operational procedures; reviews, consolidates, and prepares technical, personnel, and administrative reports covering unit activities; assists command and staff officers in continuous appraisal of chemical operations and training situations; supervises NBC decontamination platoon; monitors NBC company technical operations and serves as NBC advisor; reviews, consolidates, and prepares technical, personnel, and administrative reports; coordinates logistical needs. *Skill Level 50:* Able to perform the duties required for Skill Level 40; conducts operations and intelligence functions; prepares and maintains maps and operations information for NBC units and activities; prepares operations and inspection reports; prepares tactical NBC plans and training material; collects, interprets, analyzes, and evaluates NBC intelligence data; provides technical advice in handling, transporting, and storing chemical munitions; maintains NBC staff journals, files, records, and reports.

Recommendation, Skill Level 10

Credit is not recommended because the skills, competencies, and knowledge are uniquely military in nature (9/88).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel supervision and 1 in technical writing. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-3/95 only) (9/88).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 2 in technical writing, 1 in records management, and 2 in human relations (9/88).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in technical writing, 1 in records management, and 3 in human relations. In the upper-division baccalaureate category, 3 semester hours for field experience in management (9/88).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in technical writing, 1 in records management, and 3 in human relations. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in management problems (9/88).

MOS-55B-002

AMMUNITION SPECIALIST

(Ammunition Storage and Operations Specialist)

55B10

55B20

55B30

55B40

Exhibit Dates: 1/90–12/90.**Career Management Field:** 55 (Ammunition).**Description**

Summary: Receives, inspects, classifies, stores, and issues ammunition; keeps records of warehouse transactions. *Skill Level 10:* Serves as an ammunition storage assistant or records clerk; assists in the receipt, storage, issue, and maintenance of all types of conventional and chemical ammunition, ammunition components, and explosives; loads, unloads, stacks,

and stores ammunition supplies and explosives including guided missiles using material handling equipment; prepares ammunition for shipment by bracing and staying loads; inventories ammunition in storage; assists in upkeep of operations area and facilities; employs safety precautions regarding ammunition storage, handling, and maintenance; assists in the routine destruction of unserviceable and irreparable conventional and chemical ammunition and explosives. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; performs emergency destruction of ammunition; prepares periodic statistical reports on issue, receipt, and storage functions. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises subordinates; plans and organizes ammunition storage facilities and maintenance operations; estimates requirements for personnel, tools, equipment, and supplies; supervises the establishment and maintenance of ammunition stock control records. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises ammunition supply operations including maintenance of non-nuclear ammunition; performs as technical advisor; prepares activity reports; assigns duties to subordinates; supervises the setting up and camouflaging of ammunition supply and maintenance facilities.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in explosives (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in explosives and 3 in supply procedures (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in explosives and 3 in supply procedures. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 in human relations (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in explosives and 3 in supply procedures. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 3 for field experience in management (6/76).

MOS-55B-003

AMMUNITION SPECIALIST

55B10

55B20

55B30

55B40

Exhibit Dates: 1/91–1/93.**Career Management Field:** 55 (Ammunition).**Description**

Summary: Supervises, performs, or assists in ammunition storage, receipt, issue, maintenance, stock control and accounting, and inspection and destruction procedures. *Skill Level 10:* Serves as an ammunition storage assistant or records clerk; assists in the receipt, storage, issue, and maintenance of all types of conventional and chemical ammunition, ammunition components, and explosives; loads, unloads, stacks, and stores ammunition supplies and explosives including guided missiles using

material handling equipment, prepares ammunition for shipment by bracing and strapping loads, inventories ammunition in storage, assists in upkeep of operations area and facilities, employs safety precautions regarding ammunition storage, handling, and maintenance; assists in the routine destruction of unserviceable and irreparable conventional and chemical ammunition and explosives. *Skill Level 20*: Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates, performs emergency destruction of ammunition; prepares periodic statistical reports on issue, receipt, and storage functions. *Skill Level 30*: Able to perform the duties required for Skill Level 20; supervises subordinates; plans and organizes ammunition storage facilities and maintenance operations; estimates requirements for personnel, tools, equipment, and supplies; supervises the establishment and maintenance of ammunition stock control records. *Skill Level 40*: Able to perform the duties required for Skill Level 30; supervises ammunition supply operations including maintenance of non-nuclear ammunition; performs as technical advisor; prepares activity reports; assigns duties to subordinates; supervises the setting up and camouflaging of ammunition supply and maintenance facilities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science and 3 in inventory control. (NOTE: This recommendation for skill level 10 is valid for the dates 1/91-9/91 only) (4/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in inventory control, and 3 in personnel supervision (4/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in inventory control, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (4/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in inventory control, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (4/91).

MOS-55B-004

AMMUNITION SPECIALIST

55B10
55B20
55B30
55B40

Exhibit Dates: Pending Evaluation. 2/93-Present.

MOS-55D-001

EXPLOSIVE ORDNANCE DISPOSAL SPECIALIST

55D10
55D20
55D30
55D40
55D50

Exhibit Dates: 1/90-12/90

Career Management Field: 55 (Ammunition).

Description

Summary: Supervises or performs disposal activities related to explosive devices. *Skill Level 10*: Assists in the location, identification, rendering safe, removal, and destruction of explosive ordnance other than nuclear fission or fusion materials; uses detection instruments to determine hazards and to delineate exclusion areas; decontaminates explosive devices as required; assists in isolating explosive and/or contaminated areas; removes obstructions surrounding explosive devices; makes photographs and radiographs; operates and performs maintenance on explosive disposal equipment, tools, and vehicles, including radiac equipment, radios, and chemical detection equipment; cooperates with law enforcement agencies and protection services. *Skill Level 20*: Able to perform the duties required for Skill Level 10; performs render-safe and disposal procedures for nuclear devices; destroys or neutralizes unserviceable and irreparable conventional explosive devices; reads and interprets radiographs, diagrams, drawings, and technical literature; identifies explosives by appearance and markings; performs radiation monitoring and evaluates existing and potential hazards associated with nuclear devices. *Skill Level 30*: Able to perform the duties required for Skill Level 20; supervises four or more persons; prepares technical intelligence and incident reports; develops and/or modifies render-safe procedures for conventional explosive devices; conducts classes; assists in unit administration, supply, security, and records management; assumes command of an explosives disposal team. *Skill Level 40*: Able to perform the duties required for Skill Level 30; supervises five or more persons; performs administrative and supervisory activities for the disposal unit including personnel, supply, maintenance, security, training, and management; consolidates, edits, and reviews disposal reports; maintains liaison with supporting security units; coordinates operations and movements; prepares orders and operating procedures. *Skill Level 50*: Able to perform the duties required for Skill Level 40; supervises disposal operation unit under direction of unit commander; coordinates operations and movements; supervises activities of several disposal teams over a wide geographical area; oversees and supervises coordination and liaison with supporting units; assumes command of unit in absence of commander.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in explosives or mechanical technology and 1 in photography (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in explosives or mechanical technology, 2 in blueprint interpretation, and 1 in photography. If the duty assignment was nuclear explosive ordnance specialist, 3 additional semester hours in nuclear technology (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in explosives or mechanical technology, 2 in blueprint interpretation, and 1 in photography. If the duty assignment was nuclear explosive ordnance specialist, 3 additional

semester hours in nuclear technology. In the lower-division baccalaureate/associate degree category, 2 semester hours in technical writing, 2 in maintenance management, 3 in human relations, and 3 in public speaking (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in explosives or mechanical technology, 2 in blueprint interpretation, and 1 in photography. If the duty assignment was nuclear explosive ordnance specialist, 3 additional semester hours in nuclear technology. In the lower-division baccalaureate/associate degree category, 2 semester hours in technical writing, 2 in maintenance management, 3 in human relations, and 3 in public speaking. In the upper-division baccalaureate category, 3 semester hours in radiation physics, 3 in introduction to management, and 3 for field experience in management (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, 6 semester hours in explosives or mechanical technology, 2 in blueprint interpretation, and 1 in photography; if the duty assignment was nuclear explosive ordnance specialist, 3 additional semester hours in nuclear technology. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical writing, 3 in maintenance management, 3 in human relations, 3 in public speaking, and 6 for innovative explosive devices. In the upper-division baccalaureate category, 3 semester hours in radiation physics, 3 in introduction to management, and 6 for field experience in management (6/76).

MOS-55D-002

EXPLOSIVE ORDNANCE DISPOSAL SPECIALIST

55D10
55D20
55D30
55D40
55D50

Exhibit Dates: 1/91-Present.

Career Management Field: 55 (Ammunition).

Description

Summary: Supervises or performs disposal of explosive devices. *Skill Level 10*: Assists in the location, identification, rendering safe, removal, and destruction of explosive ordnance other than nuclear fission or fusion materials; uses detection instruments to determine hazards and delineate exclusion areas; decontaminates explosive devices as required; assists in isolating explosive and/or contaminated areas; removes obstructions surrounding explosive devices; makes photographs and radiographs; operates and performs maintenance on explosive disposal equipment, tools, and vehicles, including radiac equipment, radios, robots, and chemical detection equipment; cooperates with law enforcement agencies and protection services. *Skill Level 20*: Able to perform the duties required for Skill Level 10; performs render-safe and disposal procedures for nuclear devices; destroys or neutralizes unserviceable and irreparable conventional explosive devices; reads and interprets radiographs, diagrams, drawings, and technical literature; identifies explosives by appearance and markings; performs radiation monitoring and evaluates existing and potential hazards associated with

nuclear devices. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises four or more persons; prepares technical intelligence and incident reports using personal and mainframe computers; develops and/or modifies render-safe procedures for conventional explosive devices; conducts classes; assists in unit administration, supply, security, and records management; assumes command of an explosive disposal team. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises five or more persons; performs administrative and supervisory activities for the disposal unit including personnel, supply, maintenance, security, training, and management; consolidates, edits, and reviews disposal reports; maintains liaison with supporting security units; coordinates operations and movements; establishes ordering and operating procedures. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises disposal teams over a wide geographical area; oversees and supervises coordination and liaison with supporting units; assumes command of unit in absence of commander.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in drawing interpretation, and 3 in instrumentation. (NOTE: This recommendation for skill level 10 is valid for the dates 1/91-9/91 only) (4/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in drawing interpretation, 3 in instrumentation, 3 in computer applications, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/91-2/95 only) (4/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in drawing interpretation, 3 in instrumentation, 3 in computer applications, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (4/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in drawing interpretation, 3 in instrumentation, 3 in computer applications, 3 in personnel supervision, 3 in maintenance management, and 3 in public speaking. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (4/91).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in drawing interpretation, 3 in instrumentation, 3 in computer applications, 3 in personnel supervision, 3 in maintenance management, 2 in records and information management, and 3 in public speaking. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in organizational management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (4/91).

MOS-55G-001

NUCLEAR WEAPONS MAINTENANCE SPECIALIST

55G10

55G20

55G30

55G40

Exhibit Dates: 1/90-12/90.

Career Management Field: 55 (Ammunition).

Description

Summary: Supervises or performs maintenance and surveillance of nuclear weapons, nuclear weapons trainers, and associated electrical, mechanical, and nuclear components. *Skill Level 10:* Assembles, tests, and adjusts electrical and mechanical components to ensure proper operation; uses common and specialized hand tools, power tools, and test equipment; performs surveillance and monitoring operations for radioactive matter; applies appropriate safety procedures; packages, unpacks, paints, and stencils weapons, components, and containers. *Skill Level 20:* Able to perform the duties required for Skill Level 10; test-operates weapons components; receives, stores, and inspects (preissue and preload) nuclear components; uses radioactive survey equipment; provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and instructs subordinates in MOS 55G and 35F (Nuclear Weapons Electronics Specialist); calculates work loads, coordinates work activities, and makes assignments; prepares training charts, documents, and materials; adheres strictly to regulations and inspection techniques and procedures in the maintenance, modification, repair, transportation, and maintenance calibration of nuclear weapons and associated trainers, testers, and handling equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises, coordinates, and inspects maintenance facilities, activities, and operations; helps plan maintenance activities; serves as a technical advisor in electronics; reviews safety and fire regulations, standard operating procedures, and the utilization of equipment and recommends changes; has office management responsibilities, including records and forms management, correspondence, security standards, and personnel processing.

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in mechanical maintenance, 2 in electrical maintenance, 2 in use and care of hand tools, power tools, and test equipment, 1 in safety practices and procedures, and 1 in shop operations. Advanced standing in an electrical maintenance apprentice training program on the basis of employer or trade association performance examination (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in mechanical maintenance, 2 in electrical maintenance, 2 in use and care of hand tools, power tools, and test equipment, 1 in safety practices and procedures, and 1 in shop operations. Advanced standing in an electrical maintenance apprentice training program on the basis of employer or trade association performance examination. In the lower-division baccalaureate/associate degree category, 2 semester hours in toxic material handling and 1 in nuclear technology (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in safety practices and procedures, 2 in electrical maintenance, 2 in use and care of hand tools, power tools, and test equipment, 2 in shop operations, and 1 in mechanical maintenance. Advanced standing in an electrical maintenance apprentice training program on the basis of employer or trade association performance examination. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in maintenance management, 3 in human relations, 2 in toxic material handling, and 1 in nuclear technology, and additional credit in nuclear technology on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in safety practices and procedures, 2 in electrical maintenance, 2 in use and care of hand tools, power tools, and test equipment, 2 in shop operations, and 1 in mechanical maintenance. Advanced standing in an electrical maintenance apprentice training program on the basis of employer or trade association performance examination. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in maintenance management, 3 in human relations, 3 in office management, 3 in personnel supervision, 2 in toxic material handling, and 1 in nuclear technology, and additional credit in nuclear technology on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (6/76).

MOS-55G-002

NUCLEAR WEAPONS SPECIALIST

55G10

55G20

55G30

55G40

Exhibit Dates: 1/91-12/94. Effective 12/94, MOS 55G was discontinued.

Career Management Field: 55 (Ammunition).

Description

Summary: Supervises or performs maintenance and surveillance of nuclear weapons, nuclear weapons trainers, and associated electronic test equipment. *Skill Level 10:* Assembles, tests, and adjusts electrical and mechanical components to ensure proper operation; uses common and specialized hand tools, power tools, and test equipment; performs surveillance and monitoring operations for radioactive matter; applies appropriate safety procedures; packages, unpacks, paints, and stencils weapons, components, and containers. *Skill Level 20:* Able to perform the duties required for Skill Level 10; test-operates weapons components; receives, stores, and inspects (preissue and preload) nuclear components; uses radioactive survey equipment; provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and instructs subordinates; calculates work loads, coordinates work activities, and makes assignments; prepares training charts, documents, and materials; adheres strictly to regulations and appropriate inspection techniques and procedures in the maintenance, modification, repair, transportation, and maintenance.

nance calibration of nuclear weapons and associated trainers, testers, and handling equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises, coordinates, and inspects maintenance facilities, activities, and operations; helps plan maintenance activities; serves as a technical advisor in electronics; reviews safety and fire regulations, standard operating procedures, and the utilization of equipment and recommends changes; has office management responsibilities, including records and forms management, correspondence, security standards, and personnel processing.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in basic electronics, 3 in mechanical maintenance, and 3 in industrial safety. (NOTE: This recommendation for skill level 10 is valid for the dates 1/91-9/91 only) (4/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in basic electronics, 3 in mechanical maintenance, 3 in industrial safety, 3 in inventory control, and 3 in personnel supervision (4/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in basic electronics, 3 in mechanical maintenance, 3 in industrial safety, 3 in inventory control, 3 in personnel supervision, 3 in maintenance management, 2 in records and information management, and 3 in drawing interpretation (4/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in basic electronics, 3 in mechanical maintenance, 3 in industrial safety, 3 in inventory control, 3 in personnel supervision, 3 in maintenance management, 2 in records and information management, and 3 in drawing interpretation. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (4/91).

MOS-55R-001

AMMUNITION STOCK CONTROL AND ACCOUNTING
SPECIALIST
55R10
55R20
55R30

Exhibit Dates: 1/90-6/93. Effective 6/93, MOS 55R was discontinued, and its duties were incorporated into MOS 55B, Ammunition Specialist.

Career Management Field: 55 (Ammunition).

Description

Summary: Supervises, performs, or assists in ammunition stock control and accounting duties. Duties are related to receipt, storage, issue, and distribution of munitions, guided missiles and large rockets, munition components, packaging materials, and explosives. *Skill Level 10:* Performs ammunition supply stock control and accounting duties using both automated and manual procedures; prepares and posts accountable stock records; prepares and processes issue, receipt, adjustment, and

rewarehousing documents, as well as shipping documents and transaction and stock status reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; prepares periodic reports by compiling statistics on issue, receipt, adjustment, and storage functions. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises manual and automated stock control operations; assigns duties and instructs subordinates in proper work techniques and procedures; plans and organizes work schedules and performs as a technical advisor.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in supply procedures. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (4/86).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in supply procedures. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to inventory control (4/86).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in supply procedures. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to inventory control, 2 in records management, and 2 in personnel supervision (4/86).

MOS-55X-001

AMMUNITION INSPECTOR
55X30
55X40

Exhibit Dates: 1/90-12/90.

Career Management Field: 55 (Ammunition).

Description

Summary: Conducts inspections and tests to determine the serviceability of conventional and non-nuclear special ammunition, components, and related package materials. *Skill Level 30:* Inspects ammunition to determine deterioration; evaluates safety procedures; inspects incoming and outgoing ammunition shipments; inspects magazines, storage sites, and surrounding areas for storage safety; inspects ammunition destruction sites for safety condition; selects ammunition samples for tests, evaluations, or investigations; teaches surveillance and safety techniques; performs function tests of selected ammunition items; maintains files. (NOTE: May have progressed to 55X30 from 55B30 (Ammunition Specialist), 55D30 (Explosive Ordnance Disposal Specialist), or 55G30 (Nuclear Weapons Maintenance Specialist). *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as the principal advisor on ammunition surveillance and safety matters and provides technical guidance to subordinates; reviews safety requirements; coordinates surveillance activities with civilian authorities and inspectors.

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in explosives, 3 in supply procedures, 3 in quality control, and 3 in safety inspection procedures. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations and 1 in office procedures (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in explosives, 3 in supply procedures, 3 in quality control, and 3 in safety inspection procedures. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 for field experience in management, and 3 in office procedures (6/76).

MOS-55X-002

AMMUNITION INSPECTOR
55X30
55X40

Exhibit Dates: 1/91-6/93. Effective 6/93, MOS 55X was discontinued, and its duties were incorporated into MOS 55B, Ammunition Specialist.

Career Management Field: 55 (Ammunition).

Description

Summary: Conducts inspections and tests to determine the serviceability of conventional and non-nuclear special ammunition, components, and related package materials. *Skill Level 30:* Supervises the inspection of ammunition to determine level of deterioration; evaluates safety procedures; inspects incoming and outgoing ammunition shipments, and vehicle suitability; inspects magazines, storage sites, and surrounding areas for storage safety; inspects ammunition destruction sites for safety condition; selects ammunition samples for tests of selected ammunition items; maintains files. (NOTE: Must be able to perform the duties of skill level 30 in the following MOS's: 55B (Ammunition Specialist), 55D (Explosive Ordnance Disposal Specialist), 55G (Nuclear Weapons Specialist), or 55R (Ammunition Stock Control and Accounting Specialist); has four years of experience in one of the above MOS's. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as the principal advisor on ammunition surveillance and safety matters and provides technical guidance to subordinates; reviews safety requirements; coordinates surveillance activities with civilian authorities and inspectors.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in industrial safety, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in logistics management and 3 in quality assurance (4/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in industrial safety, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in logistics management, 3 in quality assurance, 3 in organizational management, and 3 for field experience in management (4/91).

MOS-55Z-001

AMMUNITION SUPERVISOR
55Z50

Exhibit Dates: 1/90-12/90.

Career Management Field: 55 (Ammunition).

Description

Serves as the principal supervisor and advisor for the receipt, issue, classification, storage,

surveillance, maintenance, disposition, and decontamination of conventional ammunition and nuclear and non-nuclear special ammunition; advises on packaging and rigging loads for movement by all types of transportation; assists in the selection and layout of ammunition storage facilities; recommends employment of and requirements for technical assistance teams, labor, equipment, and supplies; assists in the preparation of plans, policies, and procedures; prepares and reviews evaluations and reports on operations and training activities; analyzes ammunition stock with automatic data processing data; advises commander on enlisted personnel matters. NOTE: May have progressed to 55Z50 from 55B40 (Ammunition Specialist), 55G40 (Nuclear Weapons Maintenance Specialist), or 55X40 (Ammunition Inspector).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in business administration, 3 in human relations, and 6 for field experience in management (6/76).

MOS-55Z-002

AMMUNITION SUPERVISOR
55Z50

Exhibit Dates: 1/91–Present.

Career Management Field: 55 (Ammunition).

Description

Serves as the principal supervisor and advisor for the receipt, issue, classification, storage, surveillance, maintenance, disposition, and decontamination of conventional ammunition and nuclear and non-nuclear special ammunition; advises on packaging and rigging loads for movement by all types of transportation; assists in the selection and layout of ammunition storage facilities; recommends employment of and requirements for technical assistance teams, labor, equipment, and supplies; assists in the preparation of plans, policies, and procedures; prepares and reviews evaluations and reports on operations and training activities; analyzes ammunition stock with automatic data processing data; advises commander on enlisted personnel matters. NOTE: May have progressed to 55Z50 from 55B40 (Ammunition Specialist), 55G40 (Nuclear Weapons Specialist), or 55X40 (Ammunition Inspector).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in inventory control and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in organizational management, 3 in public administration, 3 for field experience in management, 3 in personnel management, and 3 in technical writing; if individual has attained pay grade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (4/91).

MOS-57E-002

LAUNDRY AND BATH SPECIALIST
57E10
57E20
57E30
57E40
57E50

Exhibit Dates: 1/90–1/92.

Career Management Field: 76 (Supply and Service), subfield 762 (Service).

Description

Summary: Performs or supervises laundry, bath, decontamination, and reimpregnation functions. **Skill Level 10:** Operates laundry, bath, fumigation, and delousing equipment; installs, inspects, and operates generators, compressors, water pumps and water heaters; cleans, lubricates, and performs preventive maintenance on laundry, bath, and related equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; determines laundry sites, suitable water supplies, drainage, parking sites, and concealment; prepares facility layout; supervises marking, classifying, and washing operations; directs use of washing formulas, soaps, detergents, and other materials; establishes work priorities; prepares work schedules. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises operations of medium-sized unit; supervises and coordinates with medical authorities; determines personnel requirements and plans and supervises training. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises large units; establishes, evaluates, and monitors unit training and preventive maintenance; prepares reports, operation plans, and orders; monitors mobile laundry and renovation operations. **Skill Level 50:** Able to perform the duties required for Skill Level 40; serves as principal noncommissioned officer in field service company; advises superiors on personnel matters; assists in conducting unit training.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in institutional laundry. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in institutional laundry (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 5 semester hours in institutional laundry. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 in human relations. In the upper-division baccalaureate category, 3 semester hours for field experience in management (5/78).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in institutional laundry. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 2 in record keeping. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (5/78).

Recommendation, Skill Level 50

In the vocational certificate category, 5 semester hours in institutional laundry. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 2 in record keeping. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 6 for field experience in management (5/78).

MOS-57E-003

LAUNDRY AND BATH SPECIALIST
57E10
57E20
57E30
57E40
57E50

Exhibit Dates: 2/92–Present.

Career Management Field: 76 (Supply and Services).

Description

Summary: Performs or supervises laundry, bath, decontamination, and reimpregnation functions. **Skill Level 10:** Operates laundry, bath, fumigation, and delousing equipment; installs, inspects, and operates generators, compressors, water pumps, and water heaters; cleans, lubricates, and performs preventive maintenance on laundry, bath, and related equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; determines laundry sites, suitable water supplies, drainage, parking sites, and concealment; prepares facility layout; supervises marking, classifying, and washing operations; directs use of washing formulas, soaps, detergents, and other materials; establishes work priorities; prepares work schedules. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises operations of medium-sized unit; supervises and coordinates with medical authorities; determines personnel requirements and plans and supervises training. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises large units; establishes, evaluates, and monitors unit training and preventive maintenance; prepares reports, operation plans, and orders; monitors mobile laundry and renovation operations. **Skill Level 50:** Able to perform the duties required for Skill Level 40; serves as principal noncommissioned officer in field service company; advises superiors on personnel matters; assists in conducting unit training. NOTE: May progress to 57E50 from 57E40 or 43M40 (Fabric Repair Specialist).

Recommendation, Skill Level 10

Credit is not recommended because of the limited, specialized nature of the skills, competencies, and knowledge (2/92).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision (2/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management (2/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (2/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management (2/92).

agement, at paygrade E-9 was attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (2/92).

MOS-57F-003

GRAVES REGISTRATION SPECIALIST

57F10
57F20
57F30
57F40
57F50

Exhibit Dates: 1/90-1/92.

Career Management Field: 76 (Supply and Service), subfield 762 (Service).

Description

Summary: Recovers, identifies, processes, and inters human remains; performs duties at disaster sites as well as within the community; provides technical data to validate the personal identification process; designs cemetery facilities and directs funeral activities. *Skill Level 10:* Serves as a mortuary assistant in recovery, transportation, identification, and interment of remains; reads or indicates the location of graves on maps, sketches, or overlays; determines recovery locations; records identification characteristics including fingerprints and skeletal and dental charts; operates cameras and assists X-ray operations; assists in burials, excavating of graves, and cemetery maintenance. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises search and recovery operations for remains; teaches special handling, marking, and shipping of contagious disease cases and contaminated remains; prepares location sketches and overlays; prepares work schedules and assigns personnel to work positions. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises medium-sized graves registration activities; serves as graves registration noncommissioned officer in staff position; assists in postmortem examinations; assists in special criminal investigations. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises large graves registration activities; advises subordinates on health requirements; coordinates and advises on military burials; assists in review of mortuary services contracts. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises memorial affairs and graves registration activities; provides technical and administrative advice and assistance on graves registration matters including acquisition of land for temporary cemeteries and facility, manpower, and equipment requirements; establishes and maintains official records; serves on special boards and councils; prepares reports on memorial affairs and graves registration activities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 4 semester hours in mortuary sciences and 1 map reading. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (5/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in mortuary sciences, 1 in map reading, 2 in physical anthropology, and 2 in anatomy and physiology.

In the upper-division baccalaureate category, 3 semester hours in mortuary sciences (5/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 9 semester hours in mortuary sciences, 1 in map reading, 2 in physical anthropology, 3 in human relations, 2 in personnel supervision, and 2 in anatomy and physiology. In the upper-division baccalaureate category, 3 semester hours in mortuary sciences and 3 for field experience in management (5/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in mortuary sciences, 2 in physical anthropology, 3 in human relations, 3 in personnel supervision, 2 in anatomy and physiology, and 1 in map reading. In the upper-division baccalaureate category, 3 semester hours in mortuary sciences, 3 in introduction to management, 3 for field experience in management, and 3 in personnel management (5/78).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 12 semester hours in mortuary sciences, 2 in physical anthropology, 3 in human relations, 3 in personnel supervision, 2 in anatomy and physiology, 1 in map reading, and 2 in technical report writing. In the upper-division baccalaureate category, 3 semester hours in mortuary sciences, 3 in introduction to management, 6 for field experience in management, 3 in management, 3 in personnel management, and 3 in records administration (5/78).

MOS-57F-004

MORTUARY AFFAIRS SPECIALIST (Graves Registration Specialist)

57F10
57F20
57F30
57F40
57F50

Exhibit Dates: 2/92-12/95. Effective 12/95, MOS 57F was discontinued and its duties were incorporated into MOS 92M, Mortuary Affairs Specialist.

Career Management Field: 76 (Supply and Services).

Description

Summary: Recovers, identifies, processes, and inters human remains at disaster sites as well as within the community; provides technical data to validate the personal identification process; designs cemetery facilities; directs funeral activities. *Skill Level 10:* Serves as a mortuary assistant in recovery, transportation, identification, and interment of remains; reads or indicates the location of graves on maps, sketches, or overlays; determines recovery locations; records identification characteristics including fingerprints and skeletal and dental charts; operates cameras and assists X-ray operations; assists in burials, excavating of graves, and cemetery maintenance. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises search and recovery operations for remains; teaches special handling, marking, and shipping of contagious disease cases and contaminated remains; prepares location sketches and overlays; prepares work schedules and assigns personnel to work positions; supervises a squad of approximately six persons.

Skill Level 30: Able to perform the duties required for Skill Level 20; supervises medium-sized graves registration activities; serves as graves registration noncommissioned officer in staff position; assists in postmortem examinations; assists in special criminal investigations; prepares efficiency reports on subordinates. *Skill Level 40:* Able to perform the duties required for Skill Level 30; advises subordinates on health requirements; coordinates and advises on military burials; assists in review of mortuary services contracts; counsels subordinates. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises memorial affairs and graves registration activities; provides technical and administrative advice and assistance on graves registration matters including acquisition of land for temporary cemeteries, and facility, manpower, and equipment requirements; establishes and maintains official records; serves on special boards and councils; prepares reports on memorial affairs and graves registration activities; reviews reports of subordinates.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 4 in mortuary sciences, 2 in forensic identification, 2 in anatomy and physiology, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 2/92-2/95 only) (2/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 4 in mortuary sciences, 2 in forensic identification, 2 in anatomy and physiology, 3 in personnel supervision, and 2 in records and information management (2/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 4 in mortuary sciences, 2 in forensic identification, 2 in anatomy and physiology, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (2/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 4 in mortuary sciences, 2 in forensic identification, 2 in anatomy and physiology, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management; if paygrade E-9 has been attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (2/92).

MOS-62B-003

CONSTRUCTION EQUIPMENT REPAIRER

62B10
62B20
62B30
62B40

Exhibit Dates: 1/90-5/91.

Career Management Field: 63 (Mechanical Maintenance), subfield 633 (Machinery Maintenance).

Description

Summary: Supervises or performs maintenance on engineering construction equipment including powered bridging equipment and power generation equipment. **Skill Level 10:** Performs maintenance on gasoline, diesel, and electrically powered construction and associated equipment; performs preventive maintenance including all servicing; isolates malfunctions by using appropriate electric or hydraulic diagnostic equipment and technical publications; inspects, disassembles, repairs, and reassembles carburetors, fuel systems, cooling systems, electrical systems, transmission assemblies, and brake systems; reconditions and assembles clutches, steering clutches, final drives, hydraulic systems, and crawler assemblies; removes and overhauls engines; uses hand tools, test equipment, powered shop tools, and oxyacetylene and electrical welding equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; performs and records results of technical inspections; uses and maintains specialized shop equipment, test sets, and technical publications. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises and inspects maintenance of engineering construction equipment; determines extent of repair or overhaul needed for equipment; controls requisitioning, storage, and inventory of tools and supplies; plans and schedules work assignments and priorities; performs complex diagnosis and repair of equipment; supervises record keeping; prepares activity reports. **Skill Level 40:** Able to perform the duties required for Skill Level 30; provides general management and supervision for maintenance on engineering construction equipment, power generation equipment, and associated items; monitors performance of subordinates; inspects work to ensure compliance with standard operating procedures, safety standards, and technical publications; analyzes productivity and work quality; participates in research and development activities.

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in use and care of tools. In the lower-division baccalaureate/associate degree category, 6 semester hours in heavy equipment mechanics and 1 in basic welding (7/79).

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in use and care of tools. In the lower-division baccalaureate/associate degree category, 6 semester hours in heavy equipment mechanics and 1 in basic welding (7/79).

Recommendation, Skill Level 30

In the vocational certificate category, 1 semester hour in use and care of tools. In the lower-division baccalaureate/associate degree category, 9 semester hours in heavy equipment mechanics, 2 in basic welding, 1 in records maintenance, and 2 in personnel supervision (7/79).

Recommendation, Skill Level 40

In the vocational certificate category, 1 semester hour in use and care of tools. In the lower-division baccalaureate/associate degree category, 9 semester hours in heavy equipment

mechanics, 2 in basic welding, 1 in records maintenance, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (7/79).

MOS-62B-004

CONSTRUCTION EQUIPMENT REPAIRER

62B10

62B20

62B30

62B40

Exhibit Dates: 6/91–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Supervises or performs maintenance on engineering construction equipment including powered bridging equipment and power generation equipment. **Skill Level 10:** Performs maintenance on gasoline, diesel, and electrically powered construction and associated equipment; performs preventive maintenance including all servicing; isolates malfunctions by using appropriate electric or hydraulic diagnostic equipment and technical publications; inspects, disassembles, repairs, and reassembles carburetors, fuel systems, cooling systems, electrical systems, transmission assemblies, and brake systems; reconditions and assembles clutches, steering clutches, final drives, hydraulic systems, and crawler assemblies; removes and overhauls engines; uses hand tools, test equipment, powered shop tools, and oxyacetylene and electrical welding equipment; reads maps including topographic maps; recognizes military map symbols. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; supervises repair and maintenance activities; performs and records results of technical inspections; uses and maintains specialized shop equipment, test sets, and technical publications. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises and inspects maintenance of engineering construction equipment; determines extent of repair or overhaul needed for equipment; controls requisitioning, storage, and inventory of tools and supplies; plans and schedules work assignments and priorities; performs complex diagnosis and repair of all equipment; supervises record keeping; prepares activity reports. **Skill Level 40:** Able to perform the duties required for Skill Level 30; provides general management and supervision for maintenance on engineering construction equipment, power generation equipment, and associated items; monitors performance of subordinates; inspects work to ensure compliance with standard operating procedures, safety standards, and technical publications; analyzes productivity and work quality; participates in research and development activities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in oxyacetylene and arc welding, 3 in heavy equipment mechanics, 3 in diesel and gasoline engine troubleshooting, and 3 in military science. (NOTE: This recommendation for skill level 10 is valid for the dates 6/91-9/91 only) (7/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in oxyacetylene and arc welding, 3 in heavy equipment mechanics, 3 in diesel and gasoline engine troubleshooting, 3 in military science, 3 in hydraulic and pneumatic systems, 3 in electrical systems, 2 in maintenance management, 3 in personnel supervision, and 3 in diesel and gasoline engine rebuilding. (NOTE: This recommendation for skill level 20 is valid for the dates 6/91-2/95 only) (7/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in oxyacetylene and arc welding, 3 in heavy equipment mechanics, 3 in diesel and gasoline engine troubleshooting, 3 in military science, 3 in hydraulic and pneumatic systems, 3 in electrical systems, 3 in maintenance management, 3 in personnel supervision, and 3 in diesel and gasoline engine rebuilding (7/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in oxyacetylene and arc welding, 3 in heavy equipment mechanics, 3 in diesel and gasoline engine troubleshooting, 3 in military science, 3 in hydraulic and pneumatic systems, 3 in electrical systems, 3 in maintenance management, 3 in personnel supervision, and 3 in diesel and gasoline engine rebuilding. In the upper-division baccalaureate category, 3 semester hours for field experience in management (7/91).

MOS-62E-002

HEAVY CONSTRUCTION EQUIPMENT OPERATOR

62E10

62E20

Exhibit Dates: 1/90–5/91.

Career Management Field: 51 (General Engineering), subfield 515 (Construction Equipment Operation).

Description

Summary: Operates crawler and wheeled tractors with dozer attachments, scoop loader, motorized grader, and towed or self-propelled scraper. **Skill Level 10:** Clears, grubs, strips, rough-grades, excavates, backfills, levels, slopes, cuts, ditches, and stockpiles with crawler, wheeled tractor with dozer attachment, and scoop loader; under supervision, operates motorized grader and towed or self-propelled scooper; loads equipment for movement and drives tractor-trailer for hauling; performs operator maintenance. **Skill Level 20:** Able to perform the duties required for Skill Level 10; strips, scarifies, cuts, fills, spreads, backfills, backblades, ditches, and slopes with motorized grader; removes overburden; loads and spreads with tractor-scraper; windrows, blends, and spreads asphalt road mix; mixes soil stabilization materials; performs surface and drainage maintenance; performs operator maintenance.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in heavy equipment operation and 5 in mechanical maintenance (7/79).

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in heavy equipment operation and 5 in mechanical maintenance (7/79).

MOS-62E-003

HEAVY CONSTRUCTION EQUIPMENT OPERATOR
62E10
62E20

Exhibit Dates: 6/91–Present.

Career Management Field: 51 (General Engineering)

Description

Summary: Operates crawler and wheeled tractors with dozer attachments, scoop loader, motorized grader, and towed or self-propelled scraper. *Skill Level 10:* Clears, grubs, strips, rough-grades, excavates, backfills, levels, slopes, cuts, ditches and stockpiles with crawler, wheeled tractor with dozer attachment, and scoop loader; under supervision, operates motorized grader and towed or self-propelled scoop; loads equipment for movement and drives tractor-trailer for hauling; performs operator maintenance and assists mechanics; assists in combat engineer missions. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and instructs subordinates; strips, scarifies, cuts, fills, spreads, backfills, backblades, ditches, and slopes with motorized grader; removes overburden; loads and spreads with tractor-scraper; windrows, blends, and spreads asphalt road mix; performs surface and drainage maintenance; performs operator maintenance.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in heavy construction equipment operation and maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science. (NOTE: This recommendation for skill level 10 is valid for the dates 6/91-9/91 only) (7/91).

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in heavy construction equipment operation and maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 6/91-2/95 only) (7/91).

MOS-62F-002

LIFTING AND LOADING EQUIPMENT OPERATOR
62F10
62F20

Exhibit Dates: 1/90–5/91.

Career Management Field: 51 (General Engineering), subfield 515 (Construction Equipment Operation).

Description

Summary: Operates cranes and crane shovels of stationary, crawler, and truck-mounted types; operates rough terrain forklifts. *Skill Level 10:* Drives wheel-mounted cranes; loads crane shovel on vehicle for transport; maneuvers boom with spreader, hook, sling, or other device to attach, lift, swing, or lower loads in response to signals; directs rigging load and estimates safe lifting capacity; loads and unloads containerized, palletized, and unpalletized items on various types of surfaces; assists in operation of crane shovel with attachments; performs operator maintenance. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs ditching, sloping, excavat-

ing, and stockpiling with dragline, digs, loads, and stockpiles with clamshell, ditches and excavates with backhoe, performs pile setting and driving operations, levels, face cuts, and excavates with shovel front, operates special-purpose heavy cranes at industrial facilities; performs operator maintenance.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in crane operation and 5 in equipment maintenance (7/79).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in crane operation and 5 in equipment maintenance (7/79).

MOS-62F-003

CRANE OPERATOR
62F10
62F20

Exhibit Dates: 6/91–Present.

Career Management Field: 51 (General Engineering).

Description

Summary: Operates stationary, crawler, and truck-mounted cranes and crane shovels. *Skill Level 10:* Drives wheel-mounted cranes; loads crane on vehicle for transports; maneuvers boom with spreader, hook, sling, or other devices to attach, lift, swing, or lower loads in response to signals; directs rigging load and estimates safe lifting capacity; loads and unloads containerized, palletized, and unpalletized items on various types of surfaces; performs operator maintenance and assists mechanics; dig, loads, and stockpiles with clamshell; performs pile setting and driving operations; assists in combat engineer missions. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and instructs subordinates; operates special purpose heavy crane.

Recommendation, Skill Level 10

In the vocational certificate category, 10 semester hours in crane operation and maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science. (NOTE: This recommendation for skill level 10 is valid for the dates 6/91-9/91 only) (7/91).

Recommendation, Skill Level 20

In the vocational certificate category, 15 semester hours in crane operation and maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 6/91-2/95 only) (7/91).

MOS-62G-002

QUARRYING SPECIALIST
62G10
62G20
62G30

Exhibit Dates: 1/90–5/91.

Career Management Field: 51 (General Engineering), subfield 515 (Construction Equipment).

Description

Summary: Operates or supervises the operation of electric, pneumatic, and internal combustion machines used in drilling, crushing,

grading, and cleaning gravel and rock; detonates explosives to blast rock in quarries and at construction sites. *Skill Level 10:* Under supervision, assembles, erects, adjusts, and operates the crushing, screening, conveying, and washing units, operates rock drills, maintains tools and equipment; assists powder man. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; determines screen sizes and crusher settings to produce aggregate to specifications; identifies the type and quality of aggregate by simple field tests; notes and corrects or assists in correcting machine malfunctions and deficiencies; performs routine maintenance; performing as blaster, is able to transport and use explosives; determines drilling pattern, depth, and spacing of bore holes; operates various rock drills. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises all phases of quarry operation.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in machine operation (8/79).

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in machine operation and 5 in testing and sampling. In the lower-division baccalaureate/associate degree category, 2 semester hours in machine operation, 1 in testing and sampling, and 2 in personnel supervision and training (8/79).

Recommendation, Skill Level 30

In the vocational certificate category, 5 semester hours in machine operation, 5 in testing and sampling, and 6 in plant management. In the lower-division baccalaureate/associate degree category, 2 semester hours in machine operation, 1 in testing and sampling, 3 in personnel supervision and training, 3 in plant management, and 3 in construction management. In the upper-division baccalaureate category, 3 semester hours for field experience in management (8/79).

MOS-62G-003

QUARRYING SPECIALIST
62G10
62G20
62G30

Exhibit Dates: 6/91–Present.

Career Management Field: 51 (General Engineering).

Description

Summary: Operates or supervises the operation of electric, pneumatic, and internal combustion machines used in drilling, crushing, grading, and cleaning gravel and rock; detonates explosives to blast rock in quarries and at construction sites. *Skill Level 10:* Under supervision, assembles, erects, adjusts, and operates the crushing, screening, conveying, and washing units; operates rock drills; maintains tools and equipment; assists powder man; assists in performance of combat engineer missions. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and instructs subordinates; determines screen sizes and crusher settings to produce aggregate to specifications; identifies type and quality of aggregate by simple field tests; notes and corrects or assists in correcting machine malfunctions and deficiencies; performs routine maintenance; performing as a blaster, is able to transport and use explo-

sives; determines drilling pattern, depth, and spacing of bore holes; operates various rock drills. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises all phases of quarry operations; has knowledge of rock formations and overlay in order to determine safe and efficient blasting patterns, depth of holes, and charge.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in quarry equipment operations and maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science. (NOTE: This recommendation for skill level 10 is valid for the dates 6/91-9/91 only) (7/91).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in quarry equipment operations and maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science and 3 in personnel supervision (7/91).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in quarry equipment operations and maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in personnel supervision, 2 in records and information management, and 3 in applied geology (7/91).

MOS-62H-002

CONCRETE AND ASPHALT EQUIPMENT OPERATOR

62H10
62H20
62H30

Exhibit Dates: 1/90-1/92.

Career Management Field: 51 (General Engineering), subfield 515 (Construction Equipment Operator).

Description

Summary: Supervises or operates all equipment used in concrete and asphalt production and paving. *Skill Level 10:* Operates concrete mobile mixer truck; assists plant equipment operator in operation of equipment and machines used in asphalt production and paving; loads unmixed materials in concrete mobile mixer; adjusts controls to obtain required mix proportion and slump at the job site; assists in operation of spreading and finishing equipment; assists in erection, operation, and maintenance of asphalt producing plant; operates asphalt distributor and aggregate spreader; assists in operation of asphalt paving and surfacing equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates all equipment and machines used in asphalt production and paving and concrete paving operations; erects, operates, and maintains asphalt plant; directs preparation and placement of concrete with mobile mixer truck. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises all aspects of asphalt and concrete production and paving operations; plans and directs layout and erection of asphalt plant; supervises production of hot plant mix asphalt; directs asphalt placing and rolling operations; supervises concrete mobile mixer truck use and employment; supervises concrete and asphalt equipment maintenance and training programs.

Recommendation, Skill Level 10

In the vocational certificate category, if the individual has experience in the operation of asphalt paving equipment, 5 semester hours in operation of asphalt paving equipment; if the individual has experience in the operation of concrete equipment, 5 semester hours in operation of concrete equipment. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (2/80).

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in handling and storage of materials and additional credit as follows: If the individual has experience in the operation of asphalt paving equipment, 5 semester hours in operation of asphalt paving equipment; if the individual has experience in the operation of concrete equipment, 5 semester hours in the operation of concrete equipment. In the lower-division baccalaureate/associate degree category, 2 semester hours in construction material processing and application (2/80).

Recommendation, Skill Level 30

In the vocational certificate category, 5 semester hours in handling and storage of materials and additional credit as follows: If the individual has experience in the operation of asphalt paving equipment, 5 semester hours in operation of asphalt paving equipment; if the individual has experience in the operation of concrete equipment, 5 semester hours in the operation of concrete equipment. In the lower-division baccalaureate/associate degree category, 2 semester hours in construction material processing and application, 3 in construction management, and 2 personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (2/80).

MOS-62H-003

CONCRETE AND ASPHALT EQUIPMENT OPERATOR

62H10
62H20
62H30

Exhibit Dates: 2/92-Present.

Career Management Field: 51 (General Engineering).

Description

Summary: Supervises or operates all equipment used in concrete and asphalt production and paving. *Skill Level 10:* Operates concrete mobile mixer truck; troubleshoots, maintains, and performs light repair of mobile mixer truck; assists plant equipment operator in operation of equipment and machines used in asphalt production and paving; estimates coverage requirements of asphalt and concrete projects; loads unmixed materials in concrete mobile mixer; adjusts controls to obtain required mix proportion and slump at the job site; assists in operation of spreading and finishing equipment; performs quality control tests on plastic concrete; assists in erection, operation, and maintenance of asphalt producing plant; operates asphalt distributor and aggregate spreader; assists in operation of asphalt paving and surfacing equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates all equipment and machines used in asphalt production and paving and concrete paving operations; erects, operates, and maintains asphalt plant; directs preparation and

placement of concrete with mobile mixer truck; supervises squad of approximately six persons. *Skill Level 30:* Able to perform the duties required for Skill Level 20; designs concrete and asphalt mixes according to specifications; supervises all aspects of concrete and asphalt production and paving operations; plans and directs layout and erection of asphalt plant; supervises production of hot plant mix asphalt; directs asphalt placing and rolling operations; supervises concrete mobile mixer truck use and employment; supervises concrete and asphalt equipment maintenance and training programs.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in maintenance and light repair of paving equipment, 3 in paving techniques and operations, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 2/92-2/95 only) (2/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in maintenance and light repair of paving equipment, 3 in paving techniques and operations, 3 in personnel supervision, and 2 in records and information management (2/92).

MOS-62J-002

GENERAL CONSTRUCTION EQUIPMENT OPERATOR

62J10
62J20

Exhibit Dates: 1/90-1/92.

Career Management Field: 51 (Engineering), subfield 515 (Construction Equipment Operation).

Description

Summary: Operates a variety of equipment in support of construction projects including air compressors and special-purpose construction machines engaged in compaction, ditching, pumping, augering, and well-drilling operations. *Skill Level 10:* Operates pneumatic wood borer, rock drill, air blower gun attachment, nail driver, sump pump, paving breaker, chain and circular saw, grinder, concrete vibrator, and backfill temper; operates power roller over foundations, filler stones, cover stone courses, and surface treatments, such as asphalt macadam, road mix, and hot-mix pavement; operates water distributor in compaction and dust control operations; performs operator maintenance; assists in operation of ditching machines. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates utility tractor with loader and backhoe, general purpose excavators and attachments, earth auger, and ditching machines; performs leveling, backfilling, rough grading, stockpiling, ditch digging, and loading with utility tractor-loader and backhoe; drills vertical and angled holes of appropriate diameter to proper depth with earth auger for demolition support, fence posts, power poles, and anchor posts.

Recommendation, Skill Level 10

In the vocational certificate category, 10 semester hours in machine operation and 10 in equipment maintenance. (NOTE: This recom-

mentation for skill level 10 is valid for the dates 1/90-9/91 only) (7/79).

Recommendation, Skill Level 20

In the vocational certificate category 15 semester hours in machine operation and 15 in equipment maintenance (7/79).

MOS-62J-003

GENERAL CONSTRUCTION EQUIPMENT OPERATOR

62J10

62J20

Exhibit Dates: 2/92–Present.

Career Management Field: 51 (General Engineering).

Description

Summary: Operates a variety of equipment in support of construction projects including air compressors and special-purpose construction machines engaged in compaction, ditching, pumping, augering, and well-drilling operations. **Skill Level 10:** Operates pneumatic wood borer, rock drill, air blower gun attachment, nail driver, sump pump, paving breaker, chain and circular saw, grinder, concrete vibrato, and backfill temper; operates power roller over foundations, filler stones, cover stone courses, and such surface treatments as asphalt macadam and road mix and hot-mix pavement; operates water distributor in compaction and dust control operations; performs operator maintenance and light repair; assists in operation of ditching machines. **Skill Level 20:** Able to perform the duties required for Skill Level 10; performs line and grade operations using surveyor's transit and level; performs analysis of various rock and soil structures; operates utility tractor with loader and backhoe, general purpose excavators and attachments, earth auger, and ditching machines; performs leveling, backfilling, rough grading, stockpiling, ditch digging, and loading with utility tractor loader and backhoe; drills vertical and angled holes of appropriate diameter to proper depth with earth auger for demolition support, fence posts, power poles, and anchor posts; supervises squad of approximately six persons.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (2/92).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in military science, 3 in maintenance and light repair of construction equipment, 3 in heavy equipment operation, 3 in personnel supervision, 2 in surveying operations, and 2 in basic soil mechanics. (NOTE: This recommendation for skill level 20 is valid for the dates 2/92-2/95 only) (2/92).

MOS-62N-002

CONSTRUCTION EQUIPMENT SUPERVISOR

62N30

62N40

Exhibit Dates: 1/90–1/92.

Career Management Field: 51 (General Engineering) subfield 515 (Construction Equipment Operation).

Description

Summary: Supervises construction equipment and quarry, paving, and plant equipment operations. **Skill Level 30:** Provides general

supervision to personnel operating loading, lifting, heavy, and general construction equipment; supervises and coordinates activities of above equipment including drilling operations, determines most efficient type of equipment to be used in construction, maintenance, and repair projects; estimates equipment and operator requirements for specific jobs; conducts on-the-job training and assists in supervision of unit engaged in construction equipment operations; maintains records; assists job superintendent at civilian construction site. NOTE: May have progressed to 62N30 from 62J20 (Heavy Construction Equipment Operator), or 62F20 (Lifting and Loading Equipment Operator). **Skill Level 40:** Able to perform the duties required for Skill Level 30; provides general supervision over all phases of construction operations; coordinates the activities of personnel and equipment; prepares operational reports; keeps production records; equivalent to job superintendent on civilian construction site.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in construction management, and 3 in record keeping. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in maintenance management (8/79).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in construction management, 3 in record keeping, and 3 for field experience in management. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in personnel management, 3 in maintenance management, and 3 in report writing (8/79).

MOS-62N-003

CONSTRUCTION EQUIPMENT SUPERVISOR

62N30

62N40

Exhibit Dates: 2/92–Present.

Career Management Field: 51 (General Engineering).

Description

Summary: Supervises construction equipment and quarry, paving, and plant equipment operations. **Skill Level 30:** Provides general supervision to personnel operating loading, lifting, heavy, and general construction equipment; reads and interprets drawings, plans, and specifications; supervises and coordinates activities of above equipment including drilling operations; determines most efficient type of equipment to be used in construction, maintenance, and repair projects; estimates equipment and operator requirements for specific jobs; conducts on-the-job training and assists in supervision of unit engaged in construction equipment operations; maintains records; assists job superintendent at civilian construction site. NOTE: May have progressed to 62N30 from 62E20 (Heavy Construction Equipment Operator), 62F20 (Crane Operator), or 62J20 (General Construction Equipment Operator). **Skill Level 40:** Able to perform the duties required for Skill Level 30; performs line and grade operations using surveyor's transit and level; performs various soil tests; estimates and schedules operations; provides general supervision over all

phases of construction operations; coordinates the activities of personnel and equipment machinery; prepares operational reports; keeps production records; equivalent to job superintendent on civilian construction site. NOTE: May have progressed to 62N40 from 62N30, 62G30 (Quarrying Specialist), or 62H30 (Concrete and Asphalt Equipment Operator).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in blueprint reading and drawing, 2 in records and information management, 3 in military science, and 3 in personnel supervision (2/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in blueprint reading and drawing, 2 in records and information management, 3 in military science, 3 in personnel supervision, 3 in basic soil mechanics, 3 in surveying operations, and 3 in estimating and scheduling. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (2/92).

MOS-63B-003

LIGHT WHEEL VEHICLE MECHANIC

63B10

63B20

63B30

63B40

63B50

Exhibit Dates: 1/90–7/92.

Career Management Field: 63 (Mechanical Maintenance), subfield 633 (Machinery Maintenance).

Description

Summary: Diagnoses malfunctions and performs and supervises corrective maintenance on internal combustion engines and power generating units, including accessories, power trains, and chassis components of wheel vehicles; adjusts operating mechanisms such as valve tappets, carburetors, governors, ignition system points, control linkage, clutches, and brakes; performs tune-ups; recommends appropriate power generating equipment to accommodate specific electrical loads; operates wreckers. **Skill Level 10:** Replaces engine components such as fuel pumps, generators, starters, regulators, radiators, universal joints, brake shoes, engine mounts, and lines and fittings; adjusts operating mechanisms including power generating units; prepares maintenance forms and records. **Skill Level 20:** Able to perform the duties required for Skill Level 10; able to diagnose problems and provides technical guidance to subordinates. **Skill Level 30:** Able to perform the duties required for skill level 20 of MOS 63B, 63S (Heavy Wheel Vehicle Mechanic), or 63Y (Track Vehicle Mechanic); plans and organizes work schedules; assigns duties; performs operational and administrative duties; instructs and supervises subordinates in appropriate practices, procedures, and safety. **Skill Level 40:** Able to perform the duties required for Skill Level 30; performs administrative functions and supervises the preparation of records, reports, and training of maintenance personnel; initiates action necessary to requisition repair parts and supplies; responsible for control of technical publications. **Skill Level 50:** Able to perform the duties required for Skill Level 40;

evaluates subordinates; determines training requirements and quality control principles; develops operation plans, policies, and procedures.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics (including engines and related systems, power train systems, and chassis systems). (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics (including engines and related systems, power train systems, and chassis systems) and additional credit on the basis of institutional evaluation (9/82).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics (including engines and related systems, power train systems, and chassis systems), 2 in personnel supervision, and additional credit in automotive, diesel, or truck mechanics on the basis of institutional evaluation (9/82).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics (including engines and related systems, power train systems, and chassis systems), 3 in personnel supervision, and additional credit in administration, and additional credit in automotive, diesel, or truck mechanics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for field experience in management (9/82).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics (including engines and related systems, power train systems, and chassis systems), 3 in personnel supervision, 3 in records administration, and additional credit in automotive, diesel, or truck mechanics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 for field experience in management, and 3 in applied psychology (9/82).

MOS-63B-004

LIGHT WHEEL VEHICLE MECHANIC

63B10
63B20
63B30
63B40
63B50

Exhibit Dates: 8/92–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Diagnoses malfunctions and performs and supervises corrective maintenance on diesel engines and power generating units, including accessories, power trains, and chassis components of wheel vehicles; adjusts operating mechanisms such as valve tappets, governors, ignition system points, control linkage,

clutches, brakes, suspension, and steering; performs tune-up; recommends appropriate power generating equipment to accommodate specific electrical loads; operates wreckers. *Skill Level 10:* Replaces engine components such as fuel pumps, generators, starters, regulators, radiators, universal joints, brake shoes, engine mounts, and lines and fittings; adjusts operating mechanisms including power generating unit; prepares maintenance forms and records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides supervision and technical guidance to subordinates; conducts on-the-job training; completes maintenance forms and records; troubleshoots to component level; isolates and identifies causes of malfunctions; interprets complex schematic diagrams. *Skill Level 30:* Able to perform the duties required for Skill Level 20 of MOS 63B, 63S (Heavy Wheel Vehicle Mechanic), or 63Y (Track Vehicle Mechanic); plans and organizes work schedules; assigns duties; performs operational and administrative duties; instructs and supervises subordinates in appropriate practices, procedures, and safety. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs administrative functions and supervises the preparation of records, reports, and training of maintenance personnel; initiates action necessary to requisition repair parts and supplies; maintains technical publications. *Skill Level 50:* Able to perform the duties required for Skill Level 40; evaluates subordinates; determines training requirements and quality control principles; develops operation plans, policies, and procedures; plans and organizes work area layout.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive electrical systems, 3 in diesel engine fundamentals, 3 in diesel engine performance, 3 in heavy duty brake systems, 3 in suspension and steering systems, 3 in military science, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 8/92-2/95 only) (8/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive electrical systems, 3 in diesel engine fundamentals, 3 in diesel engine performance, 3 in heavy duty brake systems, 3 in suspension and steering systems, 3 in military science, 3 in personnel supervision, 2 in records and information management, 3 in computer applications, and 3 in safety (8/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive electrical systems, 3 in diesel engine fundamentals, 3 in diesel engine performance, 3 in heavy duty brake systems, 3 in suspension and steering systems, 3 in military science, 3 in personnel supervision, 2 in records and information management, 3 in computer applications, and 3 in safety. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (8/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive electrical systems, 3 in diesel engine fundamentals, 3 in diesel engine performance, 3 in heavy duty brake systems, 3 in suspension and steering systems, 3 in military science, 3 in personnel supervision, 2 in records and information management, 3 in computer applications, and 3 in safety. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management; if paygrade E-9 has been attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (8/92).

MOS-63D-001

SELF-PROPELLED FIELD ARTILLERY SYSTEM

MECHANIC
63D10
63D20
63D30
63D40
63D50

Exhibit Dates: 1/90–7/92.

Career Management Field: 63 (Mechanical Maintenance), subfield 635 (Weapon System Maintenance).

Description

Summary: Performs and supervises maintenance on tracked and wheel vehicles. *Skill Level 10:* Services, lubricates, removes, and replaces components and assemblies such as engine, fuel, cooling, final drive, track, and suspension; performs corrective maintenance on hydraulic, mechanical, and electrical systems and/or components; employs test, measuring, and diagnostic equipment in troubleshooting; operates wrecker. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20 of MOS 63D and 45D (Self-Propelled Field Artillery Turret Mechanic); plans and organizes work schedules; assigns duties; performs operational and administrative duties; instructs and supervises subordinates in appropriate practices, procedures, and safety; utilizes salvage techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs administrative functions and supervises the preparation of records, reports, and training of maintenance personnel; initiates action necessary to requisition repair parts and supplies; maintains technical publications. *Skill Level 50:* Able to perform the duties required for Skill Level 40; evaluates subordinates; determines training requirements; develops operation plans, policies, and procedures.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics (including engines and related systems, power train systems, and chassis systems). (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics (including engines and related systems, power train sys-

tems, and chassis systems) and additional credit on the basis of institutional evaluation (9/82).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics (including engines and related systems, power train systems, and chassis systems), 2 in personnel supervision, and additional credit in automotive, diesel, or truck mechanics on the basis of institutional evaluation (9/82).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics (including engines and related systems, power train systems, and chassis systems), 3 in personnel supervision, 2 in records administration, and additional credit in automotive, diesel, or truck mechanics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for field experience in management (9/82).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics (including engines and related systems, power train systems, and chassis systems), 3 in personnel supervision, 3 in records administration, and additional credit in automotive, diesel, or truck mechanics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 for field experience in management, and 3 in applied psychology (9/82).

MOS-63D-002

SELF-PROPELLED FIELD ARTILLERY SYSTEM

MECHANIC

63D10

63D20

63D30

63D40

63D50

Exhibit Dates: 8/92–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Performs and supervises maintenance on tracked and wheel vehicles. *Skill Level 10:* Services, lubricates, removes, and replaces components and assemblies such as engine, fuel, cooling, final drive, track, and suspension; performs corrective maintenance on hydraulic, mechanical, and electrical systems and/or components; employs test, measuring, and diagnostic equipment in troubleshooting; operates wrecker. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides supervision and technical guidance to subordinates; conducts on-the-job training; interprets complex schematic diagrams; completes maintenance forms and records. *Skill Level 30:* Able to perform the duties required for Skill Level 20 of MOS 63D and 45D (Self-Propelled Field Artillery Turret Mechanic); plans and organizes work schedules; assigns duties; performs operational and administration duties; instructs and supervises subordinates in appropriate practices, procedures, and safety; utilizes salvage techniques. *Skill Level 40:* Able to perform the duties required for Skill Level

30; performs administrative functions and supervises the preparation of records, reports, and training of maintenance personnel; initiates action necessary to requisition repair parts and supplies; maintains technical publications. *Skill Level 50:* Able to perform the duties required for Skill Level 40; evaluates subordinates, determines training requirements; develops operation plans, policies, and procedures; plans and organizes work area layout.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulics, 3 in diesel engine fundamentals, 3 in automotive electrical systems, 3 in track vehicle drive train, 3 in military science, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 8/92-2/95 only) (8/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulics, 3 in diesel engine fundamentals, 3 in automotive electrical systems, 3 in track vehicle drive train, 3 in military science, 3 in personnel supervision, 2 in records and information management, 3 in computer applications, and 3 in safety (8/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulics, 3 in diesel engine fundamentals, 3 in automotive electrical systems, 3 in track vehicle drive train, 3 in military science, 3 in personnel supervision, 2 in records and information management, 3 in computer applications, and 3 in safety. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (8/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulics, 3 in diesel engine fundamentals, 3 in automotive electrical systems, 3 in track vehicle drive train, 3 in military science, 3 in personnel supervision, 2 in records and information management, 3 in computer applications, and 3 in safety. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management; if paygrade E-9 has been attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (8/92).

MOS-63E-001

M1 ABRAMS TANK SYSTEM MECHANIC

(XM1 Tank System Mechanic)

63E10

63E20

63E30

63E40

63E50

Exhibit Dates: 1/90–Present.

Career Management Field: 63 (Mechanical Maintenance), subfield 635 (Weapon System Maintenance).

Description

Summary: Performs and supervises maintenance and recovery operations on M1 tanks; maintenance includes automotive, turret, fire control, and chemical protection systems. *Skill Level 10:* Troubleshoots and performs organizational maintenance on automotive systems and components of M1 Tank, Recovery Vehicle (M88/A1), M113 family vehicles, and 1/4 ton and 2 1/2 ton tactical trucks, services, lubricates, replaces, removes, installs, repairs and adjusts, purges, and tests following systems, components, and assemblies: the engine fuel exhaust, cooling, electrical, transmission, final drive, track and suspension, steering controls, hull, chemical protection, miscellaneous accessories, and special purpose kits; prepares vehicles for operation under abnormal conditions by sealing, waterproofing, and servicing with special fuel and lubricants; performs corrective organizational maintenance on previously diagnosed malfunctions of mechanical, electrical, and hydraulic systems and/or components; test-operates equipment as required and monitors for evidence of abnormal operations; employs applicable test, measuring, and diagnostic equipment in conjunction with technical publications to troubleshoot and test continuity of electrical circuits; troubleshoots mechanical, electrical, and hydraulic systems; interprets schematic diagrams; operates hand and power tools and equipment; performs or assists in vehicle recovery and evacuation operations. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; diagnoses automotive system faults at the organizational maintenance level; troubleshoots to component level; isolates and identifies causes of malfunctions; operates vehicle for diagnoses and inspection purposes; interprets complex schematic diagrams; conducts on-the-job training; completes applicable maintenance forms and records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs as M1 tank system mechanic, fulfilling duties of both automotive (MOS 63E20) and turret (MOS 45E20) mechanics; plans and organizes work schedules and assigns duties; instructs and supervises subordinates in troubleshooting and organizational maintenance practices; supervises maintenance training including preventive maintenance training of equipment operators; performs or supervises on-site maintenance as a member or leader of a maintenance team; performs inspections and tests repaired equipment; evaluates work performance of subordinates; determines training requirements; assists in preparation of maintenance plans, policies, and procedures; supervises or prepares technical studies, evaluations, special reports, correspondence, and records pertaining to maintenance operations and training. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs as M1 tank maintenance supervisor (master mechanic) for company maintenance personnel; plans and organizes work area layout to gain maximum efficiency and utilization of time, equipment, and personnel; supervises and instructs subordinates in proper maintenance practices, procedures, and techniques; supervises maintenance administration personnel; initiates necessary maintenance management and repair parts supply actions; employs rapid and accurate techniques to determine proper maintenance and repair parts requirements in order to return damaged system to serviceable

condition; maintains technical publications. *Skill Level 50:* Able to perform the duties required for Skill Level 40; performs as M1 senior tank maintenance supervisor (senior master mechanic) for battalion maintenance section and personnel; supervises organizational maintenance on track and wheeled vehicles and upkeep of hand and power tools; plans work flow, assigns duties, and instructs in maintenance techniques; supervises processing of work orders; evaluates work performance of subordinates; determines training requirements; assists in preparation of maintenance operation plans, policies, and procedures; supervises or prepares technical studies, evaluations, special reports, correspondence, and records pertaining to maintenance and training operations.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in automotive fundamentals. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (2/84).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive fundamentals. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (2/84).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive fundamentals and 3 in personnel supervision (2/84).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive fundamentals, 3 in personnel supervision, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for field experience in management (2/84).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive fundamentals, 3 in personnel supervision, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in personnel management, 6 for field experience in management, and 3 in management problems (2/84).

MOS-63G-002

FUEL AND ELECTRICAL SYSTEMS REPAIRER

63G10

63G20

Exhibit Dates: 1/90-7/92.

Career Management Field: 63 (Mechanical Maintenance), subfield 633 (Machinery Maintenance).

Description

Summary: Performs maintenance on fuel and electrical systems, brake components, vehicles, engines of power generating equipment, and material-handling equipment. *Skill Level 10:* Tests and repairs fuel and electrical systems and components such as fuel pumps, fuel injection pumps, batteries, generators, distributors, and ignition systems; rebuilds components such as carburetors, fuel injection pumps, generators, distributors, fuel injectors, master cylinders, brake chambers, and wheel cylinders; repairs disk brake calipers; turns brake drums; relines

brake shoes. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; troubleshoots and uses diagnostic equipment to identify malfunctions in fuel and electrical systems; modifies equipment and recommends repair procedures.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics and additional credit on the basis of institutional evaluation (9/82).

MOS-63G-003

FUEL AND ELECTRICAL SYSTEMS REPAIR

63G10

63G20

Exhibit Dates: 8/92-Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Performs maintenance on diesel fuel and electrical systems, brake components, vehicles, engines of power generating equipment, and material-handling equipment. *Skill Level 10:* Tests and repairs diesel fuel and electrical systems and components such as diesel fuel pumps, diesel fuel injection pumps, batteries, and generators; rebuilds components such as diesel fuel injection pumps, generators, fuel injectors, master cylinders, brake chambers, and wheel cylinders; repairs disk brake calipers; turns brake drums; relines brake shoes. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; troubleshoots and uses diagnostic equipment to identify malfunctions in diesel fuel and electrical systems; modifies equipment and recommends repair procedures; interprets complex schematic diagrams; conducts on-the-job training; completes maintenance forms and records.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive electrical systems, 3 in diesel engine fundamentals, 3 in diesel fuel systems, 3 in heavy duty brakes, 3 in military science, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 8/92-2/95 only) (8/92).

MOS-63H-004

TRACK VEHICLE REPAIRER

63H10

63H20

63H30

63H40

Exhibit Dates: 1/90-7/92.

Career Management Field: 63 (Mechanical Maintenance), subfield 633 (Machinery Maintenance).

Description

Summary: Performs and supervises maintenance on wheel and track vehicles and material-handling equipment. *Skill Level 10:* Diagnoses and analyzes engine, power train, and chassis component malfunctions; tests, repairs, overhauls, adjusts, and replaces assemblies, subassemblies, and components such as engines (gasoline, diesel, and multifuel), clutches, transmissions, differentials, steering assemblies, transfer case and hydraulic cylinders, and components; replaces valves, shafts, gears, bearings, rings and seals, using jacks, pullers, gauges and jigs; operates wreckers. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; determines serviceability of components by using measuring devices. *Skill Level 30:* Able to perform the duties required for skill level 20 of MOS 63H, 63G (Fuel and Electrical Systems Repairer), or 63W (Wheel Vehicle Repairer); performs and supervises maintenance and completes technical inspections; repairs or overhauls engine power trains and chassis components; applies information contained in technical publications to maintenance requirements; uses measuring and testing equipment for alignment and adjustment of components and assemblies; plans and organizes work schedules; assigns duties; supervises recovery operations; administers safety programs. NOTE: May have progressed to 63H30 from 63H20, 63G20 (Fuel and Electrical Systems Repairer), or 63W20 (Wheel Vehicle Repairer). *Skill Level 40:* Able to perform the duties required for Skill Level 20 of MOS 63H or 63J (Quartermaster and Chemical Equipment Repairer); supervises maintenance and repair of equipment and vehicles (automotive, chemical, and quartermaster); applies production and quality control procedures. NOTE: May have progressed to 63H40 from 63J30 (Quartermaster and Chemical Equipment Repairer).

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive mechanics (including engines and related systems, power train systems, and chassis systems). (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive mechanics (including engines and related systems, power train systems, and chassis systems) and additional credit in automotive mechanics on the basis of institutional evaluation (9/82).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 15 semester hours in automotive mechanics (including engines and related systems, power train systems, and chassis systems), 2 in personnel supervision, and additional credit in automotive mechanics on the basis of institutional evaluation. In the upper-division baccalaureate category, credit in management or administration on the basis of institutional evaluation (9/82).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 15 semester hours in automotive mechanics (including engines and related systems, power train systems, and chassis sys-

temis), 3 in personnel supervision, 2 in records administration, and additional credit in automotive mechanics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for field experience in management (9/82).

MOS-63H-005

TRACK VEHICLE REPAIRER

63H10
63H20
63H30
63H40

Exhibit Dates: 8/92–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Performs and supervises maintenance on wheel and track vehicles and material-handling equipment. *Skill Level 10:* Diagnoses and analyzes engine, power train, and chassis component malfunctions; tests, repairs, overhauls, adjusts, and replaces assemblies, subassemblies, and components such as diesel engines, clutches, transmissions, differentials, steering assemblies, transfer case and hydraulic cylinders, and components; replaces valves, shafts, gears, bearings, rings and seals, using jacks, pullers, gauges, and jigs; operates wreckers. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides supervision and technical guidance to subordinates; determines serviceability of components using measuring devices; interprets complex schematic diagrams; conducts on-the-job training; completes maintenance forms and records. *Skill Level 30:* Able to perform the duties required for skill level 20 of MOS 63H, 63G (Fuel and Electrical Systems Repairer), or 63W (Wheel Vehicle Repairer); performs and supervises maintenance and completes technical inspections; repairs or overhauls diesel engines, power trains, and chassis components; applies information contained in technical publications to maintenance requirements; uses types of measuring and testing equipment for alignment and adjustment of components and assemblies; plans and organizes work schedules; assigns duties; supervises recovery operations; administers safety programs. **NOTE:** May have progressed to 63H30 from 63H20, 63G20 (Fuel and Electrical Systems Repairer), or 63W20 (Wheel Vehicle Repairer). *Skill Level 40:* Able to perform the duties required for Skill Level 30 of MOS 63H or 63J (Quartermaster and Chemical Equipment Repairer); supervises maintenance and repair of equipment and vehicles (automotive, chemical, and quartermaster); plans and organizes work area layout; supervises the preparation of records and reports; supervises training; applies production and quality control procedures.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulic systems, 3 in diesel fuel systems, 3 in diesel engine overhaul, 3 in automotive electrical systems, 3 in track vehicle drive trains, 3 in military science, and 3 in personnel supervision.

(NOTE: This recommendation for skill level 20 is valid for the dates 8/92–2/95 only) (8/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulic systems, 3 in diesel fuel systems, 3 in diesel engine overhaul, 3 in automotive electrical systems, 3 in track vehicle drive trains, 3 in military science, 3 in personnel supervision, 2 in records and information management, 2 in computer applications, and 3 in safety (8/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulic systems, 3 in diesel fuel systems, 3 in diesel engine overhaul, 3 in automotive electrical systems, 3 in track vehicle drive trains, 3 in military science, 3 in personnel supervision, 2 in records and information management, 3 in computer applications, and 3 in safety. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (8/92).

MOS-63J-003

QUARTERMASTER AND CHEMICAL EQUIPMENT REPAIRER

63J10
63J20

Exhibit Dates: 1/90–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Supervises or performs maintenance on chemical, quartermaster, and special-purpose equipment. *Skill Level 10:* Disassembles, repairs, reassembles, adjusts, and tests various types of quartermaster machinery and equipment, including sewing machines, gasoline lanterns, laundry units, bath units, bakery units, and such special-purpose equipment as petroleum, oil, and lubricant equipment; performs maintenance on electrical circuits; performs welding, plumbing, and pipefitting tasks; uses supply and technical literature, regulations, and manufacturers' catalogs in performing maintenance and in keeping records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; if serves as foreman, supervises from six to ten persons.

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in basic electricity laboratory. In the lower-division baccalaureate/associate degree category, 2 semester hours in small appliance repair, 1 in use and care of hand tools, and 1 in use of testing equipment. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90–9/91 only) (7/87).

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in basic electricity laboratory. In the lower-division baccalaureate/associate degree category, 2 semester hours in small appliance repair, 1 in use and care of hand tools, and 1 in use of testing equipment. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90–2/95 only) (7/87).

MOS-63N-001

M60A1/A3 TANK SYSTEM MECHANIC

63N10
63N20
63N30
63N40
63N50

Exhibit Dates: 1/90–7/92

Career Management Field: 63 (Mechanical Maintenance), subfield 635 (Weapon System Maintenance).

Description

Summary: Performs and supervises maintenance on tracked and wheel vehicles. *Skill Level 10:* Services, lubricates, removes, and replaces components and assemblies such as engine, fuel, cooling, final drive, and track and suspension; performs corrective maintenance on hydraulic, mechanical, and electrical systems and/or components; employs tests, measuring, and diagnostic equipment in troubleshooting; operates wrecker. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for skill level 10 of MOS 63N, 63R (M60A2 Tank System Mechanic), and 45N (M60A1/A3 Tank Turret Mechanic); plans and organizes work schedules; assigns duties; performs operational and administrative duties; instructs and supervises subordinates in practices, procedures, and safety; utilizes salvage techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs related administrative functions and supervises the preparation of records and reports and the training of maintenance personnel; initiates action necessary to requisition repair parts and supplies; maintains technical publications. *Skill Level 50:* Able to perform the duties required for Skill Level 40; evaluates subordinates; determines training requirements; develops operation plans, policies, and procedures.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90–9/91 only) (9/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics and additional credit on the basis of institutional evaluation (9/82).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics, 2 in personnel supervision, and additional credit in automotive, diesel, or truck mechanics on the basis of institutional evaluation (9/82).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics, 3 in personnel supervision, and 2 in records administration, and additional credit in automotive, diesel, or truck mechanics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for field experience in management (9/82).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics, 3 in personnel supervision, and 3 in records administration, and additional credit in automotive, diesel, or truck mechanics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 for field experience in management, and 3 in applied psychology (9/82).

MOS-63N-002**M60A1/A3 TANK SYSTEM MECHANIC**

63N10
63N20
63N30
63N40
63N50

Exhibit Dates: 8/92–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Performs and supervises maintenance on M60A1 and A3 tanks. *Skill Level 10:* Services, lubricates, removes, and replaces components and assemblies such as engine, fuel, cooling, final drive, track, suspension turret assembly, and hull; performs corrective maintenance on hydraulic, mechanical, and electrical systems and/or components; employs measuring and diagnostic equipment in troubleshooting; operates wrecker. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides supervision and technical guidance to subordinates; conducts on-the-job training; isolates and identifies causes of malfunctions; interprets complex schematic diagrams. *Skill Level 30:* Able to perform the duties required for skill level 20 of MOS 63N and 45N (M60A1/A3 Tank Turret Mechanic); plans and organizes work schedules; assigns duties; performs operational and administrative duties; instructs and supervises subordinates in practices, procedures, and safety; utilizes salvage techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs administration functions and supervises the preparation of records and reports and the training of maintenance personnel; initiates action necessary to requisition repair parts and supplies; plans and organizes work area layout; maintains technical publications. *Skill Level 50:* Able to perform the duties required for Skill Level 40; evaluates subordinates; determines training requirements; develops operation plans, policies, and procedures; supervises the preparation of records and reports.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive electrical systems, 3 in hydraulic systems, 3 in track vehicle drive trains, 3 in diesel engine fundamentals, 3 in military science, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 8/92-2/95 only) (8/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive electrical systems, 3 in hydraulic systems,

3 in track vehicle drive trains, 3 in diesel engine fundamentals, 3 in military science, 3 in personnel supervision, 2 in records and information management, 3 in computer applications, and 3 in safety (8/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive electrical systems, 3 in hydraulic systems, 3 in track vehicle drive trains, 3 in diesel engine fundamentals, 3 in military science, 3 in personnel supervision, 2 in records and information management, 3 in computer applications, and 3 in safety. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (8/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive electrical systems, 3 in hydraulic systems, 3 in track vehicle drive trains, 3 in diesel engine fundamentals, 3 in military science, 3 in personnel supervision, 2 in records and information management, 3 in computer applications, and 3 in safety. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management; if paygrade E-9 has been attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (8/92).

MOS-63S-001**HEAVY WHEEL VEHICLE MECHANIC**

63S10
63S20

Exhibit Dates: 1/90–7/92.

Career Management Field: 63 (Mechanical Maintenance), subfield 633 (Machinery Maintenance).

Description

Summary: Performs maintenance on heavy wheel vehicles and material-handling equipment. *Skill Level 10:* Replaces engine components such as fuel pumps, generators, starters, regulators, radiators, universal joints, brake shoes, engine mounts, and lines and fittings; adjusts operating mechanisms; prepares maintenance forms and records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; troubleshoots and uses diagnostic equipment to identify malfunctions.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics, and additional credit on the basis of institutional evaluation (9/82).

MOS-63S-002**HEAVY WHEEL VEHICLE MECHANIC**

63S10
63S20

Exhibit Dates: 8/92–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Performs maintenance on heavy wheel vehicles and material-handling equipment. *Skill Level 10:* Replaces engine components such as fuel pumps, generators, starters, regulators, radiators, universal joints, brake shoes, engine mounts, and lines and fittings; adjusts operating mechanisms; prepares maintenance forms and records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; troubleshoots and uses diagnostic equipment to identify malfunctions; interprets complex schematic diagrams; completes maintenance forms and records; conducts on-the-job training.

Recommendation, Skill Level 10

Credit may be granted on the basis of individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in diesel fuel systems, 3 in electrical systems, 3 in brake systems, 3 in heavy duty drive trains, 3 in diesel engine fundamentals, 3 in military science, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 8/92-2/95 only) (8/92).

MOS-63T-001**ITV/IFV/CFV SYSTEM MECHANIC**

63T10
63T20
63T30
63T40
63T50

Exhibit Dates: 1/90–7/92.

Career Management Field: 63 (Mechanical Maintenance), subfield 635 (Weapon System Maintenance).

Description

Summary: Performs and supervises maintenance on tracked and wheel vehicles. *Skill Level 10:* Services, lubricates, removes, and replaces components and assemblies such as engine, fuel, cooling, final drive, track, and suspension; performs corrective maintenance on hydraulic, mechanical, and electrical systems and/or components; employs measuring and diagnostic equipment in troubleshooting; operates wrecker. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for skill level 20 of MOS 63T or 45T (ITV/IFV/CFV Turret Mechanic); plans and organizes work schedules; assigns duties; performs operational and administrative duties; instructs and supervises subordinates in practices, procedures, and safety; utilizes salvage techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs administrative functions and supervises the preparation of records and reports and the training of maintenance personnel; initiates action necessary to requisition repair parts and supplies; maintains technical publications. *Skill Level 50:* Able to perform the duties required for Skill Level 40; evaluates subordinates; determines training requirements;

develops operation plans, policies, and procedures.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics and additional credit in this area on the basis of institutional evaluation (9/82).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics, 2 in personnel supervision, and additional credit in automotive, diesel, or truck mechanics on the basis of institutional evaluation (9/82).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics, 3 in personnel supervision, 2 in records administration, and additional credit in automotive, diesel, or truck mechanics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for field experience in management (9/82).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics, 3 in personnel supervision, 3 in records administration, and additional credit in automotive, diesel, or truck mechanics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 for field experience in management, and 3 in applied psychology (9/82).

MOS-63T-002

BRADLEY FIGHTING VEHICLE SYSTEM MECHANIC

63T10
63T20
63T30
63T40
63T50

Exhibit Dates: 8/92–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Performs and supervises maintenance on tracked and wheel vehicles. *Skill Level 10:* Services, lubricates, removes, and replaces components and assemblies such as engine, fuel, cooling, engine performance, final drive, track, and suspension; performs corrective maintenance on hydraulic, mechanical, and electrical systems and/or components; employs measuring and diagnostic equipment in troubleshooting; operates wrecker. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides supervision and technical guidance to subordinates; conducts on-the-job training; interprets complex schematic diagrams; completes maintenance forms and records. *Skill Level 30:* Able to perform the duties required for skill level 20 of MOS 63T or 45T (Bradley Fighting Vehicles System Turret Mechanic);

plans and organizes work schedules; assigns duties; performs operational and administrative duties; instructs and supervises subordinates in practices, procedures, and safety; utilizes salvage techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs administrative functions and supervises the preparation of records and reports; supervises the training of maintenance personnel; initiates action necessary to requisition repair parts and supplies; maintains technical publications. *Skill Level 50:* Able to perform the duties required for Skill Level 40; evaluates subordinates; determines training requirements; develops operation plans, policies, and procedures; plans work flow and assigns duties; prepares technical studies and special reports.

Recommendation, Skill Level 10

Credit may be granted on the basis of individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in engine performance (gasoline and diesel), 3 in track and suspension systems, 3 in wheel and track vehicle drive trains, 3 in automotive electrical systems, 3 in hydraulic systems, 3 in military science, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 8/92-2/95 only) (8/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in engine performance (gasoline and diesel), 3 in track and suspension systems, 3 in wheel and track vehicle drive trains, 3 in automotive electrical systems, 3 in hydraulic systems, 3 in military science, 3 in personnel supervision, 2 in records and information management, 3 in computer applications, and 3 in safety (8/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in engine performance (gasoline and diesel), 3 in track and suspension systems, 3 in wheel and track vehicle drive trains, 3 in automotive electrical systems, 3 in hydraulic systems, 3 in military science, 3 in personnel supervision, 2 in records and information management, 3 in computer applications, and 3 in safety. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (8/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in engine performance (gasoline and diesel), 3 in track and suspension systems, 3 in wheel and track vehicle drive trains, 3 in automotive electrical systems, 3 in hydraulic systems, 3 in military science, 3 in personnel supervision, 2 in records and information management, 3 in computer applications, and 3 in safety. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management; if paygrade E-9 has been attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (8/92).

MOS-63W-001

WHEEL VEHICLE REPAIRER

63W10
63W20

Exhibit Dates: 1/90–7/92.

Career Management Field: 63 (Mechanical Maintenance), subfield 633 (Machinery Maintenance).

Description

Summary: Performs maintenance on wheel vehicles, material-handling equipment (except the motor on electrical material-handling equipment). *Skill Level 10:* Performs maintenance on engines, clutches, transmissions, differentials, steering assemblies, transfer cases, and hydraulic cylinders; repairs components by replacing valves, shafts, gears, bearings, rings, and seals; operates wrecker. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; troubleshoots and uses diagnostic equipment to identify malfunctions; modifies equipment and recommends repair procedures.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics, and additional credit in this area on the basis of institutional evaluation (9/82).

MOS-63W-002

WHEEL VEHICLE REPAIRER

63W10
63W20

Exhibit Dates: 8/92–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Performs maintenance on wheel vehicles, material-handling equipment (except the motor on electrical material-handling equipment). *Skill Level 10:* Performs maintenance on engines, clutches, transmissions, differentials, steering assemblies, transfer cases, and hydraulic cylinders; repairs components by replacing valves, shafts, gears, bearings, rings, and seals; operates wrecker. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; troubleshoots and uses diagnostic equipment to identify malfunctions; modifies equipment and recommends repair procedures.

Recommendation, Skill Level 10

Credit may be granted on the basis of individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to internal combustion engines, 3 in transmission repair, 3 in suspension and steering system repair, 3 in axle assembly repair, 3 in brake system repair, 3 in military science, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 8/92-2/95 only) (8/92).

MOS-63Y-001

TRACK VEHICLE MECHANIC
63Y10
63Y20

Exhibit Dates: 1/90–7/92.

Career Management Field: 63 (Mechanical Maintenance), subfield 633 (Machinery Maintenance).

Description

Summary: Performs maintenance on track vehicles. *Skill Level 10:* Replaces engine components such as fuel pumps, generators, starters, regulators, radiators, universal joints, brake shoes, engine mounts, and lines and fittings; adjusts operating mechanisms; prepares maintenance forms and records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; troubleshoots and uses diagnostic equipment to identify malfunctions.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics, and additional credit in this area on the basis of institutional evaluation (9/82).

MOS-63Y-002

TRACK VEHICLE MECHANIC
63Y10
63Y20

Exhibit Dates: 8/92–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Summary: Performs maintenance on track vehicles. *Skill Level 10:* Replaces engine components, including fuel pumps, generators, starters, regulators, radiators, universal joints, brake shoes, engine mounts, and lines and fittings; adjusts operating mechanisms; prepares maintenance forms and records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; troubleshoots and uses diagnostic equipment to identify malfunctions; interprets complex schematic diagrams.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical systems, 3 in track vehicle drive trains, 3 in diesel engine performance, 3 in hydraulic systems, 3 in military science, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 8/92-2/95 only) (8/92).

MOS-63Z-002

MECHANICAL MAINTENANCE SUPERVISOR
63Z50

Exhibit Dates: 1/90–7/92.

Career Management Field: 63 (Mechanical Maintenance), subfield 633 (Machinery Maintenance).

Description

Manages and supervises all phases of maintenance on all types of mechanical equipment; plans layout of maintenance shops and facilities; supervises production and quality control; evaluates work performance and training requirements; assists in preparing maintenance policies and special reports. NOTE: May have progressed to 63Z50 from skill level 40 of any MOS in the mechanical maintenance career management field (63).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in records administration, and additional credit on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 6 for field experience in management, and additional credit on the basis of institutional evaluation (9/82).

MOS-63Z-003

MECHANICAL MAINTENANCE SUPERVISOR

63Z50

Exhibit Dates: 8/92–Present.

Career Management Field: 63 (Mechanical Maintenance).

Description

Supervises unit, direct, and general support maintenance on all types of mechanical equipment; plans layout of maintenance shops and facilities; supervises production and quality control; evaluates work performance and training requirements of subordinates; assists in preparing maintenance policies, technical studies, correspondence, records, and planning and special reports. NOTE: If rank is Master Sergeant, may have progressed from skill level 40 of MOS 44E, Machinist; 45K, Armament Repairer; 52X, Special Purpose Equipment Repairer; 62B, Construction Equipment Repairer; or 63H, Track Vehicle Repairer; if rank is Sergeant Major, may have progressed from skill level 50 of MOS 63B, Light Wheel Vehicle Mechanic; 63D, Self-Propelled Field Artillery System Mechanic; 63E, M1 Abrams System Mechanic; 63N, M60A1/A3 Tank System Mechanic; or 63T, Bradley Fighting Vehicle System Mechanic.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 2 in records and information management, 3 in military science, and 3 in computer applications. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if paygrade E-9 has been attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers; if served as First Sergeant, add 3 semester hours in fleet maintenance management (8/92).

MOS-66G-001

UTILITY AIRPLANE TECHNICAL INSPECTOR UTILITY/
CARGO AIRPLANE TECHNICAL INSPECTOR
66G20
66G30

Exhibit Dates: 1/90–3/90. Effective 3/90, MOS 66G was discontinued, and its duties were incorporated into MOS 67G, Utility Airplane Repairer.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs technical inspections on utility or cargo airplanes to determine maintenance requirements and to insure that appropriate maintenance has been performed. *Skill Level 20:* Trains and provides technical guidance to repairers on proper maintenance techniques and safety procedures; checks airplane flight and maintenance records to determine adherence to prescribed maintenance standards; maintains technical library; inspects systems, subsystems, and components according to applicable technical publications and checklists before, during, and after airplane maintenance and modifications; computes basic aircraft weight and balance; checks and troubleshoots systems; participates in maintenance test flights; annotates records of required maintenance; evaluates operational readiness of airplanes and recommends corrective action; inspects crash-damaged airplanes and estimates time, parts, and costs to repair; ensures compliance with aircraft configuration control, Army Oil Analysis Program, and test measuring and diagnostic calibration. NOTE: Progressed to 66G20 from 67G20, Utility Airplane Repairer. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans, directs, and supervises technical inspections; provides technical guidance to subordinates; evaluates technical training programs; prepares evaluation reports on subordinates; performs maintenance trend analysis and checks maintenance supply documents to ensure compliance with product quality control standards.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, and 3 in aviation maintenance management (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, 3 in aviation maintenance management, 3 in quality control, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in principles of management and 3 for field experience in management (7/87).

MOS-66H-001

OBSERVATION AIRPLANE TECHNICAL INSPECTOR
66H20
66H30

Exhibit Dates: 1/90–9/90. Effective 9/90, MOS 66H was discontinued, and its duties were incorporated into MOS 67H, Observation Airplane Repairer.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs technical inspections on observation airplanes to determine maintenance requirements and to ensure that appropriate maintenance has been performed. *Skill Level 20:* Trains and provides technical guidance to repairers on proper maintenance techniques and safety procedures; checks airplane flight and maintenance records to determine adherence to prescribed maintenance standards; maintains technical library; inspects systems, subsystems, and components according to applicable technical publications and checklists before, during, and after airplane maintenance and modifications; computes basic aircraft weight and balance; checks and troubleshoots systems; participates in maintenance test flights; annotates records of required maintenance; evaluates operational readiness of airplanes and recommends corrective action; inspects crash-damaged airplanes and estimates time, parts, and costs to repair; ensures compliance with aircraft configuration control, Army Oil Analysis Program, and test measuring and diagnostic calibration. **NOTE:** Progressed to 66H20 from 67H20, Observation Airplane Repairer. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans, directs, and supervises technical inspections; provides technical guidance to subordinates; evaluates technical training programs; prepares evaluation reports on subordinates; performs maintenance trend analysis and checks maintenance supply documents to ensure compliance with product quality control standards.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, and 3 in aviation maintenance management (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, 3 in aviation maintenance management, 3 in quality control, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in principles of management and 3 for field experience in management (7/87).

MOS-66J-001

AIRCRAFT ARMAMENT TECHNICAL INSPECTOR
66J30

Exhibit Dates: 1/90-9/90. Effective 9/90, MOS 66J was discontinued, and its duties were incorporated into MOS 68J, Aircraft Armament/Missile Systems Repairer.

Career Management Field: 67 (Aircraft Maintenance).

Description

Performs duties as an aircraft armament technical inspector; inspects and makes operational checks on armament systems and subsystems to isolate malfunctions using special test sets and applicable manuals and publications; plans and directs inspection activities; performs maintenance trend analysis; provides technical guidance and training to armament repairers on maintenance techniques and procedures; participates in armament system test flights. **NOTE:** Progressed to 66J30 from 68J30, Aircraft Fire Control Repairer.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in quality control, 3 in maintenance management, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in principles of management and 3 for field experience in management (7/87).

MOS-66N-001

UTILITY HELICOPTER TECHNICAL INSPECTOR
66N20
66N30

Exhibit Dates: 1/90-9/90. Effective 9/90, MOS 66N was discontinued, and its duties were incorporated into MOS 67N, UH-1 Helicopter Repairer.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs technical inspections on UH-1 utility helicopters to determine maintenance requirements and to insure that appropriate maintenance has been performed. *Skill Level 20:* Trains and provides technical guidance to repairers on maintenance techniques and safety procedures; checks airplane flight and maintenance records to determine adherence to prescribed maintenance standards; maintains technical library; inspects systems, subsystems, and components according to applicable technical publications and checklists before, during, and after airplane maintenance and modifications; computes basic aircraft weight and balance; checks and troubleshoots systems; participates in maintenance test flights; annotates records of required maintenance; evaluates operational readiness of airplanes and recommends corrective action; inspects crash-damaged airplanes and estimates time, parts, and costs to repair; ensures compliance with aircraft configuration control, Army Oil Analysis Program, and test measuring and diagnostic calibration. **NOTE:** Progressed to 66N20 from 67N20, Utility Helicopter Repairer. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans, directs, and supervises technical inspections; provides technical guidance to subordinates; evaluates technical training programs; prepares evaluation reports on subordinates; performs maintenance trend analysis and checks maintenance supply documents to ensure compliance with product quality control standards.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, and 3 in aviation maintenance management (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, 3 in aviation maintenance management, 3 in quality control, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in principles of management and 3 for field experience in management (7/87).

MOS-66R-001

AH-64 ATTACK HELICOPTER TECHNICAL INSPECTOR
66R20
66R30

Exhibit Dates: 1/90-9/90. Effective 9/90, MOS 66R was discontinued, and its duties were incorporated into MOS 67R, AH-64 Attack Helicopter Repairer.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs technical inspections on AH-64 attack helicopters to determine maintenance requirements and to ensure that appropriate maintenance has been performed. *Skill Level 20:* Trains and provides technical guidance to repairers on maintenance techniques and safety procedures; checks airplane flight and maintenance records to determine adherence to prescribed maintenance standards; maintains technical library; inspects systems, subsystems, and components according to applicable technical publications and checklists before, during, and after airplane maintenance and modifications; computes basic aircraft weight and balance; checks and troubleshoots systems; participates in maintenance test flights; annotates records of required maintenance; evaluates operational readiness of airplanes and recommends corrective action; inspects crash-damaged airplanes and estimates time, parts, and costs to repair; ensures compliance with aircraft configuration control, Army Oil Analysis Program, and test measuring and diagnostic calibration. **NOTE:** Progressed to 66R20 from 67R20, AH-64 Attack Helicopter Repairer. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans, directs, and supervises technical inspections; provides technical guidance to subordinates; evaluates technical training programs; prepares evaluation reports on subordinates; performs maintenance trend analysis and checks maintenance supply documents to ensure compliance with product quality control standards.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, and 3 in aviation maintenance management (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, 3 in aviation maintenance management, 3 in quality control, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in principles of management and 3 for field experience in management (7/87).

MOS-66S-001

SCOUT HELICOPTER TECHNICAL INSPECTOR
66S20
66S30

Exhibit Dates: 1/90-9/90. Effective 9/90, MOS 66S was discontinued, and its duties were incorporated into MOS 67S, OH-58D Helicopter Repairer.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs technical inspections on OH-58D scout helicopters to determine maintenance requirements and to ensure that appropriate maintenance has been performed. *Skill Level 20:* Trains and provides technical guidance to repairers on maintenance tech-

niques and safety procedures; checks airplane flight and maintenance records to determine adherence to prescribed maintenance standards; maintains technical library; inspects systems, subsystems, and components according to applicable technical publications and checklists before, during, and after airplane maintenance and modifications; computes basic aircraft weight and balance; checks and troubleshoots systems; participates in maintenance test flights; annotates records of required maintenance; evaluates operational readiness of airplanes and recommends corrective action; inspects crash-damaged airplanes and estimates time, parts, and costs to repair; ensures compliance with aircraft configuration control, Army Oil Analysis Program, and test measuring and diagnostic calibration. NOTE: Progressed to 66S20 from 67S20, Scout Helicopter Repairer. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans, directs, and supervises technical inspections; provides technical guidance to subordinates; evaluates technical training programs; prepares evaluation reports on subordinates; performs maintenance trend analysis and checks maintenance supply documents to ensure compliance with product quality control standards.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, and 3 in aviation maintenance management (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, 3 in aviation maintenance management, 3 in quality control, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in principles of management and 3 for field experience in management (7/87).

MOS-66T-001

TACTICAL TRANSPORT HELICOPTER TECHNICAL

INSPECTOR

66T20

66T30

Exhibit Dates: 1/90–9/90. Effective 9/90, MOS 66T was discontinued, and its duties were incorporated into MOS 67T, UH-60 Helicopter Repairer.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs technical inspections on UH-60 tactical transport helicopters to determine maintenance requirements and to ensure that appropriate maintenance has been performed. *Skill Level 20:* Trains and provides technical guidance to repairers on maintenance techniques and safety procedures; checks airplane flight and maintenance records to determine adherence to prescribed maintenance standards; maintains technical library; inspects systems, subsystems, and components according to applicable technical publications and checklists before, during, and after airplane maintenance and modifications; computes basic aircraft weight and balance; checks and troubleshoots systems; participates in maintenance test flights; annotates records of required maintenance; evaluates operational readiness of airplanes and recommends corrective action;

inspects crash-damaged airplanes and estimates time, parts, and costs to repair; ensures compliance with aircraft configuration control, Army Oil Analysis Program, and test measuring and diagnostic calibration. NOTE: Progressed to 66T20 from 67T20, Tactical Transport Helicopter Repairer. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans, directs, and supervises technical inspections; provides technical guidance to subordinates; evaluates technical training programs; prepares evaluation reports on subordinates; performs maintenance trend analysis and checks maintenance supply documents to ensure compliance with product quality control standards.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, and 3 in aviation maintenance management (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, 3 in aviation maintenance management, 3 in quality control, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in principles of management and 3 for field experience in management (7/87).

MOS-66U-001

MEDIUM HELICOPTER TECHNICAL INSPECTOR

66U20

66U30

Exhibit Dates: 1/90–9/90. Effective 9/90, MOS 66U was discontinued, and its duties were incorporated into MOS 67U, CH-47 Helicopter Repairer.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs technical inspections on CH-47 medium helicopters to determine maintenance requirements and to ensure that appropriate maintenance has been performed. *Skill Level 20:* Trains and provides technical guidance to repairers on maintenance techniques and safety procedures; checks airplane flight and maintenance records to determine adherence to prescribed maintenance standards; maintains technical library; inspects systems, subsystems, and components according to applicable technical publications and checklists before, during, and after airplane maintenance and modifications; computes basic aircraft weight and balance; checks and troubleshoots systems; participates in maintenance test flights; annotates records of required maintenance; evaluates operational readiness of airplanes and recommends corrective action; inspects crash-damaged airplanes and estimates time, parts, and costs to repair; ensures compliance with aircraft configuration control, Army Oil Analysis Program, and test measuring and diagnostic calibration. NOTE: Progressed to 66U20 from 67U20, Medium Helicopter Repairer. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans, directs, and supervises technical inspections; provides technical guidance to subordinates; evaluates technical training programs; prepares evaluation reports on subordinates; performs maintenance trend analysis and checks maintenance

supply documents to ensure compliance with product quality control standards.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, and 3 in aviation maintenance management (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, 3 in aviation maintenance management, 3 in quality control, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in principles of management and 3 for field experience in management (7/87).

MOS-66V-001

OBSERVATION/SCOUT HELICOPTER TECHNICAL

INSPECTOR

66V20

66V30

Exhibit Dates: 1/90–9/90. Effective 9/90, MOS 66V was discontinued, and its duties were incorporated into MOS 67V, Observation/Scout Helicopter Repairer.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs technical inspections on OH-58A/C Observation/Scout helicopters to determine maintenance requirements and to ensure that appropriate maintenance has been performed. *Skill Level 20:* Trains and provides technical guidance to repairers on maintenance techniques and safety procedures; checks airplane flight and maintenance records to determine adherence to prescribed maintenance standards; maintains technical library; inspects systems, subsystems, and components according to applicable technical publications and checklists before, during, and after airplane maintenance and modifications; computes basic aircraft weight and balance records; checks and troubleshoots systems; participates in maintenance test flights; annotates records of required maintenance; evaluates operational readiness of airplanes and recommends corrective action; inspects crash-damaged airplanes and estimates time, parts, and costs to repair; ensures compliance with aircraft configuration control, Army Oil Analysis Program, and test measuring and diagnostic calibration. NOTE: Progressed to 66V20 from 67V20, Observation/Scout Helicopter Repairer. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans, directs, and supervises technical inspections; provides technical guidance to subordinates; evaluates technical training programs; prepares evaluation reports on subordinates; performs maintenance trend analysis and checks maintenance supply documents to ensure compliance with product quality control standards.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, and 3 in aviation maintenance management (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, 3 in aviation maintenance management, 3 in quality

control, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in principles of management and 3 for field experience in management (7/87).

MOS-66X-001

HEAVY LIFT HELICOPTER TECHNICAL INSPECTOR
66X20
66X30

Exhibit Dates: 1/90–3/90. Effective 3/90, MOS 66S was discontinued, and its duties were incorporated into MOS 67X, Heavy Lift Helicopter Repairer.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs technical inspections on CH-54 heavy lift helicopters to determine maintenance requirements and to ensure that appropriate maintenance has been performed. **Skill Level 20:** Trains and provides technical guidance to repairers on maintenance techniques and safety procedures; checks airplane flight and maintenance records to determine adherence to prescribed maintenance standards; maintains technical library; inspects systems, subsystems, and components according to applicable technical publications and checklists before, during, and after airplane maintenance and modifications; computes basic aircraft weight and balance records; checks and troubleshoots systems; participates in maintenance test flights; annotates records of required maintenance; evaluates operational readiness of airplanes and recommends corrective action; inspects crash-damaged airplanes and estimates time, parts, and costs to repair; ensures compliance with aircraft configuration control, Army Oil Analysis Program, and test measuring and diagnostic calibration. **NOTE:** Progressed to 66X20 from 67X20, Heavy Lift Helicopter Repairer. **Skill Level 30:** Able to perform the duties required for Skill Level 20; plans, directs, and supervises technical inspections; provides technical guidance to subordinates; evaluates technical training programs; prepares evaluation reports on subordinates; performs maintenance trend analysis and checks maintenance supply documents to ensure compliance with product quality control standards.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, and 3 in aviation maintenance management (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, 3 in aviation maintenance management, 3 in quality control, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in principles of management and 3 for field experience in management (7/87).

MOS-66Y-001

AH-1 ATTACK HELICOPTER TECHNICAL INSPECTOR
66Y20
66Y30

Exhibit Dates: 1/90–9/90. Effective 9/90, MOS 66Y was discontinued, and its duties were incorporated into MOS 67Y, AH-1 Attack Helicopter Repairer.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs technical inspections on AH-1 attack helicopters to determine maintenance requirements and to ensure that appropriate maintenance has been performed. **Skill Level 20:** Trains and provides technical guidance to repairers on maintenance techniques and safety procedures; checks airplane flight and maintenance records to determine adherence to prescribed maintenance standards; maintains technical library; inspects systems, subsystems, and components according to applicable technical publications and checklists before, during, and after airplane maintenance and modifications; computes basic aircraft weight and balance records; checks and troubleshoots systems; participates in maintenance test flights; annotates records of required maintenance; evaluates operational readiness of airplanes and recommends corrective action; inspects crash-damaged airplanes and estimates time, parts, and costs to repair; ensures compliance with aircraft configuration control, Army Oil Analysis Program, and test measuring and diagnostic calibration. **NOTE:** Progressed to 66Y20 from 67Y20, AH-1 Attack Helicopter Repairer. **Skill Level 30:** Able to perform the duties required for Skill Level 20; plans, directs, and supervises technical inspections; provides technical guidance to subordinates; evaluates technical training programs; prepares evaluation reports on subordinates; performs maintenance trend analysis and checks maintenance supply documents to ensure compliance with product quality control standards.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, and 3 in aviation maintenance management (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 3 in technical electives, 3 in aviation maintenance management, 3 in quality control, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in principles of management and 3 for field experience in management (7/87).

MOS-67A-001

GENERAL AIRCRAFT REPAIRER
67A10
67A20

Exhibit Dates: 11/90–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs maintenance on both rotary wing (helicopter) and fixed wing aircraft at the intermediate level; maintenance responsibilities include the airframe systems, subsystems, and components. **Skill Level 10:** Performs maintenance checks on rotary and fixed wing aircraft; assists in performing aircraft inspections; assists in diagnosing and troubleshooting malfunctions of subsystems using special tools and equipment; prepares aircraft for shipments by surface and by air; removes and replaces subsystem assemblies and components; services and lubricates aircraft and related subsystems; uses and performs maintenance

on ground support equipment and special tools; prepares maintenance forms and records. **Skill Level 20:** Able to perform the duties required for Skill Level 10; performs maintenance, operational checks, and scheduled inspections; accomplishes diagnostic and troubleshooting duties on aircraft subsystems; performs corrosion prevention processes.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft maintenance technology. **(NOTE: This recommendation for skill level 10 is valid for the dates 11/90–9/91 only.)** (3/96).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft maintenance technology. **(NOTE: This recommendation for skill level 20 is valid for the dates 11/90–2/95 only.)** (3/96).

MOS-67G-003

UTILITY AIRPLANE REPAIRER
67G10
67G20
67G30
67G40

Exhibit Dates: 1/90–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Supervises and performs maintenance on utility airplanes at the unit, intermediate, and component levels, excluding repair of system components. **Skill Level 10:** Performs air crewmember duties, removes and installs subsystems such as engines, propellers, and landing gear; removes and installs components, including starters, generators, inverters, batteries, pumps, and hydraulic units; services and lubricates aircraft and aircraft subsystems; prepares aircraft for maintenance inspections; performs scheduled and special inspections and maintenance checks; assists in troubleshooting; prepares aircraft for air or surface shipment; taxis aircraft; uses and performs maintenance on ground support equipment and special tools; prepares forms, records, and reports. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; performs maintenance and operational checks and scheduled inspections; troubleshoots aircraft subsystems. **Skill Level 30:** Able to perform the duties required for Skill Level 20; applies production, quality control, and other management principles to shop and flight line operation; plans work flow; instructs personnel and conducts training programs in maintenance, supply, and safety techniques; supervises the preparation of forms, records, and reports on aircraft maintenance and supply procedures. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises the training of personnel; prepares evaluations, special reports, and maintenance records; plans and lays out airplane maintenance areas, repair shops, and facilities requirements; assists in the preparation of plans and policies; controls the flow of work orders, requisitions, and correspondence.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in aircraft maintenance. In the lower-division baccalaureate/associate degree

category, 3 semester hours in aircraft maintenance technology. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (10/84).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in aircraft maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft maintenance technology. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (10/84).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in aircraft maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft maintenance technology and 3 in personnel supervision (10/84).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in aircraft maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft maintenance technology, 3 in personnel supervision, and 3 in aircraft maintenance management (10/84).

MOS-67H-003

OBSERVATION AIRPLANE REPAIRER

67H10
67H20
67H30
67H40

Exhibit Dates: 1/90–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Supervises and performs maintenance on observation airplanes at the unit, intermediate, and component levels, excluding repair of system components. **Skill Level 10:** Removes and installs subsystem assemblies such as engine, propellers, and landing gear; removes and installs components, including starters, generators, inverters, batteries, pumps, and hydraulic units; services and lubricates aircraft and the aircraft subsystems; prepares aircraft for maintenance inspections; performs scheduled and special inspections and maintenance checks; assists in troubleshooting; prepares aircraft for air or surface shipment; taxis aircraft; uses and performs maintenance on ground support equipment and special tools; prepares forms, records, and reports. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; performs maintenance and operational checks and scheduled inspections; accomplishes diagnostic and troubleshooting duties on aircraft subsystems. **Skill Level 30:** Able to perform the duties required for Skill Level 20; applies production, quality control, and other management principles to shop and flight line operation; plans work flow; instructs personnel and conducts training programs in maintenance, supply, and safety techniques; supervises the preparation of forms, records, and reports on aircraft maintenance and supply procedures. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises the training of personnel; prepares evaluations, special reports, and maintenance records; plans and lays out airplane maintenance areas, repair

shops, and facility requirements; assists in the preparation of plans and policies; controls the flow of work orders, requisitions, and correspondence.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in aircraft maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft maintenance technology. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (10/84).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in aircraft maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft maintenance technology. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (10/84).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in aircraft maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft maintenance technology and 3 in personnel supervision (10/84).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in aircraft maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft maintenance technology, 3 in personnel supervision, and 3 in aircraft maintenance management (10/84).

MOS-67N-002

UTILITY HELICOPTER REPAIRER

67N10
67N20
67N30

Exhibit Dates: 1/90–12/90.

Career Management Field: 67 (Aviation Maintenance), subfield 671 (Aircraft Maintenance).

Description

Summary: Performs or supervises maintenance on utility helicopters, excluding repairs of systems components, or conducts maintenance inspections. **Skill Level 10:** Assists in the removal and installation of subsystem assemblies such as engines, transmissions, gear boxes, rotor hubs, and rotor blades; prepares helicopters for extensive inspections and maintenance; assists in operational checks; performs maintenance on common and special tools and ground support equipment; uses maintenance forms and records; may perform duties of utility helicopter crew chief. **Skill Level 20:** Able to perform the duties required for Skill Level 10; serves as utility helicopter crew chief; provides technical guidance to subordinates; maintains ground support equipment; prepares maintenance forms and records. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises all maintenance on utility helicopters; plans work flow; applies production control, quality control, and other maintenance management principles to shop, flight line, and supply operations; instructs personnel, and conducts on-the-job training in helicopter maintenance, supply, and safety techniques; evaluates work performance; monitors operational checks

and test flights; certifies airworthiness of the aircraft.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance (5/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance. In the upper-division baccalaureate category, 2 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance, 2 in aviation maintenance management, 3 in human relations (or a management elective), and 2 in quality control; if the duty position was maintenance supervisor section chief, 3 semester hours in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in aviation maintenance management, 3 in personnel management, and 3 for field experience in management; or 9 semester hours in management electives (5/78).

MOS-67N-003

UH-1 HELICOPTER REPAIRER

67N10
67N20
67N30

Exhibit Dates: 1/91–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs or supervises maintenance on utility helicopters, excluding repairs of system components, or conducts maintenance inspections. **Skill Level 10:** Assists in the removal and installation of such subsystem assemblies as engines, transmissions, gear boxes, rotor hubs, and rotor blades; prepares helicopters for extensive inspections and maintenance; assists in operational checks; performs maintenance on common and special tools and ground support equipment; uses maintenance forms and records; may perform duties of utility helicopter crew chief. **Skill Level 20:** Able to perform the duties required for Skill Level 10; maintains ground support equipment; prepares maintenance forms and records. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises all maintenance on utility helicopters; plans work flow; applies production control, quality assurance, and other maintenance management principles to shop, flight line, and supply operations; instructs personnel, and conducts on-the-job training in helicopter maintenance, supply, and safety techniques; evaluates work performance; monitors operational checks and test flights; certifies airworthiness of the aircraft.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic aircraft maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/91-9/91 only) (3/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic aircraft maintenance, 3 in personnel supervision,

and 3 in helicopter maintenance. (NOTE: This recommendation for skill level 20 is valid for the dates 1/91-2/95 only) (3/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic aircraft maintenance, 3 in personnel supervision, 3 in helicopter maintenance, 2 in occupational safety, 3 in maintenance management, and 2 in records and information management (3/91).

MOS-67R-001

AH-64 ATTACK HELICOPTER REPAIRER

67R10
67R20
67R30
67R40

Exhibit Dates: 1/90–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs or supervises maintenance on attack helicopters, excluding repairs of system components. **Skill Level 10:** Assists in the removal and installation of such subsystem assemblies as engines, transmissions, gear boxes, rotor hubs, and rotor blades; prepares helicopter for extensive inspections and maintenance; assists in operational checks; performs maintenance on common and special tools and ground support equipment; uses maintenance forms and records. **Skill Level 20:** Able to perform the duties required for Skill Level 10; serves as attack helicopter crew chief; provides technical guidance to subordinates; maintains ground support equipment; prepares maintenance forms and records. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises all maintenance on attack helicopters; plans work flow; applies production control, quality control, and other maintenance management principles to shop, flight line, and supply operations; instructs personnel, and conducts on-the-job training in helicopter maintenance, supply, and safety techniques; evaluates work performance; monitors operational checks and test flights; certifies airworthiness of the aircraft; if duty position is section chief, serves as the principal noncommissioned officer in a section. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises all maintenance activities; diagnoses complex malfunctions; determines personnel and parts requirements; coordinates work schedules and assigns duties; applies production, quality control, and other maintenance management principles and procedures; prepares evaluations, special reports, and maintenance records; supervises technical training programs; assists in the preparation of plans and policies; controls the flow of work orders, requisitions, and correspondence; plans the layout of helicopter maintenance areas, shops, and facilities. NOTE: May have progressed to 67R40 from 67R30; 66R30, AH-64 Attack Helicopter Technical Inspector; 67S30, Scout Helicopter Repairer; or 66S30, Scout Helicopter Technical Inspector.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance and 2 in aviation maintenance management. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance, 3 in aviation maintenance management, 2 in quality control, and 3 in personnel supervision; if duty position was section chief, 3 additional semester hours in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in principles of management (7/87).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 9 semester hours in basic helicopter maintenance, 3 in aviation maintenance management, 2 in quality control, 6 in personnel supervision, and 1 in records administration. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in principles of management (7/87).

MOS-67S-001

OH-58D HELICOPTER REPAIRER

67S10
67S20
67S30

Exhibit Dates: 1/90–7/95.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs or supervises maintenance on Scout helicopters, excluding repairs of system components. **Skill Level 10:** Assists in the removal and installation of such subsystem assemblies as engines, transmissions, gear boxes, rotor hubs, and rotor blades; prepares helicopters for extensive inspections and maintenance; assists in operational checks; performs maintenance on common and special tools and ground support equipment; uses maintenance forms and records; may perform duties of Scout helicopter crew chief. **Skill Level 20:** Able to perform the duties required for Skill Level 10; serves as scout helicopter crew chief; provides technical guidance to subordinates; maintains ground support equipment; prepares maintenance forms and records. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises all maintenance on utility helicopters; plans work flow; applies production control, quality control, and other maintenance management principles to shop, flight line, and supply operations; instructs personnel and conducts on-the-job training in helicopter maintenance, supply, and safety techniques; evaluates work performance; monitors operational checks and test flights; certifies airworthiness of the aircraft; if duty position is section chief, serves as the principal noncommissioned officer in a section.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance and 2 in aviation maintenance management. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance, 3 in aviation maintenance management, 2 in quality control, and 3 in personnel supervision; if duty position was section chief, 3 additional semester hours in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in principles of management (7/87).

MOS-67S-002

OH-58D HELICOPTER REPAIRER

67S10
67S20
67S30
67S40

Exhibit Dates: Pending Evaluation. 8/95–Present.

MOS-67T-002

UH-60 HELICOPTER REPAIRER

67T10
67T20
67T30
67T40

Exhibit Dates: 1/90–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs or supervises maintenance on tactical transport helicopters, excluding repairs of system components. **Skill Level 10:** Assists in the removal and installation of such subsystem assemblies as engines, transmissions, gear boxes, rotor hubs, and rotor blades; prepares helicopter for extensive inspections and maintenance; assists in operational checks; performs maintenance on common and special tools and ground support equipment; uses maintenance forms and records. **Skill Level 20:** Able to perform the duties required for Skill Level 10; serves as tactical transport helicopter crew chief; provides technical guidance to subordinates; maintains ground support equipment; prepares maintenance forms and records. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises all maintenance on tactical transport helicopters; plans work flow; applies production control, quality control, and other maintenance management principles to shop, flight line, and supply operations; instructs personnel, and conducts on-the-job training in helicopter maintenance, supply, and safety techniques; evaluates work performance; monitors operational checks and test flights; certifies airworthiness of the aircraft; if duty position is section chief, serves as the principal noncommissioned officer in a section. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises all maintenance activities; diagnoses complex malfunctions; determines personnel and parts requirements; coordinates work schedules and assigns duties; applies production, quality control, and other maintenance

management principles and procedures; prepares evaluations, special reports, and maintenance records; supervises technical training programs; assists in the preparation of plans and policies; controls the flow of work orders, requisitions, and correspondence; plans the layout of helicopter maintenance areas, shops, and facilities. **NOTE:** May have progressed to 67T40 from 67T30; 66T30, Tactical Transport Helicopter Technical Inspector; 67N30, Utility Helicopter Repairer; or 66N30, Utility Helicopter Technical Inspector.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic helicopter maintenance. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic helicopter maintenance and 2 in aviation maintenance management. (**NOTE:** This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic helicopter maintenance, 3 in aviation maintenance management, 2 in quality control, and 3 in personnel supervision; if duty position was section chief, 3 additional semester hours in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in principles of management (7/87).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in basic helicopter maintenance, 3 in aviation maintenance management, 2 in quality control, 6 in personnel supervision, and 1 in records administration. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in principles of management (7/87).

MOS-67U-003

CH-47 HELICOPTER REPAIRER

67U10

67U20

67U30

67U40

Exhibit Dates: 1/90–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs or supervises maintenance on medium helicopters, excluding repairs of system components. **Skill Level 10:** Assists in the removal and installation of subsystem assemblies such as engines, transmissions, gear boxes, rotor hubs, and rotor blades; prepares helicopter for extensive inspections and maintenance; assists in operational checks; performs maintenance on common and special tools and ground support equipment; uses maintenance forms and records. **Skill Level 20:** Able to perform the duties required for Skill Level 10; serves as medium helicopter crew chief; provides technical guidance to subordinates; maintains ground support equipment; prepares maintenance forms and records. **Skill Level 30:** Able to perform the duties required for Skill

Level 20; supervises all maintenance on medium helicopters; plans work flow; applies production control, quality control, and other maintenance management principles to shop, flight line, and supply operations; instructs personnel, and conducts on-the-job training in helicopter maintenance, supply, and safety techniques; evaluates work performance; monitors operational checks and test flights; certifies airworthiness of the aircraft; if duty position is section chief, serves as the principal noncommissioned officer in a section. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises all maintenance activities; diagnoses complex malfunctions; determines personnel and parts requirements; coordinates work schedules and assigns duties; applies production, quality control, and other maintenance management principles and procedures; prepares evaluations, special reports, and maintenance records; supervises technical training; assists in the preparation of plans and policies; controls the flow of work orders, requisitions, and correspondence; plans the layout of helicopter maintenance areas, shops, and facilities. **NOTE:** May have progressed to 67U40 from 67U30; 66U30, Medium Helicopter Technical Inspector; 67X30, Heavy Lift Helicopter Repairer; or 66X30, Heavy Lift Helicopter Technical Inspector.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance and 2 in aviation maintenance management. (**NOTE:** This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in helicopter maintenance, 3 in aviation maintenance management, 2 in quality control, and 3 in personnel supervision; if duty position was section chief, 3 additional semester hours in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in principles of management (7/87).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 9 semester hours in basic helicopter maintenance, 3 in aviation maintenance management, 2 in quality control, 6 in personnel supervision, and 1 in records administration. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in principles of management (7/87).

MOS-67V-003

OBSERVATION/SCOUT HELICOPTER REPAIRER

67V10

67V20

67V30

Exhibit Dates: 1/90–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Supervises or performs maintenance on Observation/Scout helicopters, excluding the repair of system components. **Skill Level 10:** Performs maintenance on Observation/Scout helicopters; assists in the removal and installation of such subsystem assemblies as engines, transmissions, gear boxes, rotor hubs, and rotor blades; prepares helicopters for major inspections; assists in operational checks; uses maintenance forms and records. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; performs operational inspection checks; troubleshoots rotor system malfunctions; performs all scheduled and special aircraft inspection maintenance tasks; prepares maintenance forms and records; maintains ground support equipment. **Skill Level 30:** Able to perform the duties required for Skill Level 20; applies quality control, production control, and other maintenance management principles to shop, flight line, and supply operations; instructs personnel and conducts on-the-job training in helicopter maintenance, supply, and safety techniques; assists in performing weight and balance checks; monitors operational checks and test flights; certifies airworthiness of aircraft; if duty position is section chief, serves as the principal noncommissioned officer in a section.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance and 2 in aviation maintenance management. (**NOTE:** This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance, 2 in quality control, 3 in aviation maintenance management, and 3 in personnel supervision; if the duty position was section chief, 3 additional semester hours in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in principles of management (7/87).

MOS-67X-003

HEAVY LIFT HELICOPTER REPAIRER

67X10

67X20

67X30

Exhibit Dates: 1/90–6/94. MOS 67X was discontinued.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs or supervises helicopter maintenance, excluding repair of system components. **Skill Level 10:** Maintains and repairs heavy lift helicopters and prepares them for inspections; removes and replaces such subsystem components as wheels, tires, starters, generators, inverters, voltage regulators, valves, hydraulic cylinders, and hoses; assists in opera-

tional checks; uses maintenance forms and records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; may serve as heavy lift helicopter crew chief; provides technical guidance to subordinates; removes and replaces aircraft power plant, power train components, flight controls, and flight control hydraulic components; troubleshoots rotor system malfunctions; performs operational checks; performs all scheduled and special maintenance tasks; maintains ground support equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans work flow; applies production control, quality control, and other maintenance management principles to shop and flight-line operations; prepares forms and records; certifies airworthiness of aircraft.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance (heavy). (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance (heavy) and 2 in aviation maintenance management (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance (heavy), 2 in quality control, 3 in aviation maintenance management, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in principles of management (7/87).

MOS-67Y-003

AH-1 ATTACK HELICOPTER REPAIRER

67Y10
67Y20
67Y30
67Y40

Exhibit Dates: 1/90–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs or supervises maintenance on attack helicopters, excluding repairs of system components. *Skill Level 10:* Assists in the removal and installation of such subsystem assemblies as engines, transmissions, gear boxes, rotor hubs, and rotor blades; prepares helicopter for extensive inspections and maintenance; assists in maintenance checks; performs maintenance on common and special tools and ground support equipment; uses maintenance forms and records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as attack helicopter crew chief; provides technical guidance to subordinates; maintains ground support equipment; prepares maintenance forms and records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises all maintenance on attack helicopters; plans work flow; applies production control, quality control, and other maintenance management principles to shop, flight-line, and supply operations; instructs personnel, and conducts on-the-job training in helicopter maintenance, supply, and safety techniques; evaluates work performance; monitors operational checks and test flights; certifies airworthiness of the

aircraft, if duty position is section chief, serves as the principal noncommissioned officer in a section. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises all maintenance activities; diagnoses complex malfunctions; determines personnel and parts requirements; coordinates work schedules and assigns duties; applies production, quality control, and other maintenance management principles and procedures; prepares evaluations, special reports, and maintenance records; supervises technical training programs; assists in the preparation of plans and policies; controls the flow of work orders, requisitions, and correspondence; plans the layout of helicopter maintenance areas, shops, and facilities. NOTE: May have progressed to 67Y40 from 67Y30; 66Y30, AH-1 Attack Helicopter Technical Inspector; 67V30, Observation/Scout Helicopter Repairer; or 66V30, Observation/Scout Helicopter Technical Inspector.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance and 2 in aviation maintenance management. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance, 3 in aviation maintenance management, 2 in quality control, and 3 in personnel supervision; if duty position was section chief, 3 additional semester hours in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in principles of management (7/87).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 7 semester hours in basic helicopter maintenance, 3 in aviation maintenance management, 2 in quality control, 6 in personnel supervision, and 1 in records administration. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in principles of management (7/87).

MOS-67Z-003

AIRCRAFT MAINTENANCE SENIOR SERGEANT

67Z50

Exhibit Dates: 1/90–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Supervises aircraft maintenance at either unit, intermediate, or depot levels on activities having a mix of aircraft maintenance and/or component repair; serves as the principal noncommissioned officer in aircraft maintenance activities and may become first sergeant; plans and lays out aircraft maintenance areas and component repair shops and facilities; ensures that proper maintenance techniques have been employed by use of quality assurance inspections; supervises and participates in preparation

of studies, evaluations, special reports, and records pertaining to aircraft maintenance and component repair operations and training and related activities; applies production quality control and other maintenance management principles and procedures; processes work orders and allocates maintenance responsibilities. NOTE: May have progressed to 67Z50 from 67G40, Utility Airplane Repairer; 67I40, Tactical Transport Helicopter Repairer; 67R40, AH-64 Attack Helicopter Repairer; 67H40, AH-1 Attack Helicopter Repairer; 67U40, Medium Helicopter Repairer; 68K40, Aircraft Components Repair Supervisor; or 68J40, Aircraft Fire Control Repairer.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical writing, 3 in applied psychology, and 3 in interpersonal communications. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 6 in management problems (7/87).

MOS-68B-002

AIRCRAFT POWERPLANT REPAIRER

68B10
68B20
68B30

Exhibit Dates: 1/90–12/90.

Career Management Field: 67 (Aviation Maintenance), subfield 672 (Aircraft Component Repair).

Description

Summary: Performs or supervises maintenance on turbine engines and their components. *Skill Level 10:* Performs maintenance on turbine power plants and assists in power plant removal; removes, replaces, services, prepares, preserves, and cleans engine assemblies or components; performs maintenance on ground support equipment; uses and maintains common and special tools; uses certain aircraft forms and records; prepares requests for turn-ins and repair parts. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; applies troubleshooting techniques to diagnose malfunctions in specific engine components; disassembles, repairs, reassembles, adjusts, and tests turbine engine systems, subsystems, and components; maintains selected ground support equipment; performs maintenance on diagnostic equipment; prepares forms and records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans work flow; applies production control, quality control, and other maintenance management principles and procedures to shop operations; prepares forms and records; conducts on-the-job training; supervises and evaluates work performance in power plant maintenance; may serve as technical inspector; monitors shop and flight-line safety.

Recommendation, Skill Level 10

In the vocational certificate category, 12 semester hours in turbine engine maintenance and 3 for technical electives. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technology (or 12 in turbine engine maintenance and 3 for technical electives) (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 12 semester hours in turbine engine maintenance

and 3 for technical electives. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technology (or 12 in turbine engine maintenance and 3 for technical electives) and 3 in aviation maintenance management. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 12 semester hours in turbine engine maintenance and 3 for technical electives. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technology (or 12 in turbine engine maintenance and 3 for technical electives), 3 in aviation maintenance management, 3 in quality control, 3 in flight safety, and 3 in human relations (or a management elective); if the duty assignment was aircraft power plant repair supervisor section chief, 3 semester hours in personnel supervision. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management and 3 in personnel management (5/78).

MOS-68B-003

AIRCRAFT POWERPLANT REPAIRER

68B10

68B20

68B30

Exhibit Dates: 1/91–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs or supervises maintenance on turbine engines and their components. **Skill Level 10:** Performs maintenance on turbine power plants and assists in power plant removal; removes, replaces, services, prepares, preserves, and cleans engine assemblies or components; maintains ground support equipment; uses and performs maintenance on common and special tools; uses certain aircraft forms and records; prepares requests for turn-ins and repair parts. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; applies troubleshooting techniques to diagnose malfunctions in specific engine components; disassembles, repairs, reassembles, adjusts, and tests turbine engine systems, subsystems and components; maintains selected ground support equipment; maintains diagnostic equipment; prepares forms and records; performs on-the-job training. **Skill Level 30:** Able to perform the duties required for Skill Level 20; plans work flow; applies production control, quality assurance, and other maintenance management principles and procedures to shop operations; prepares forms and records; conducts on-the-job training; supervises and evaluates work performance in power plant maintenance; may serve as technical inspector; monitors shop and flight-line safety.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic aircraft maintenance and 3 in principles of turbine engines. (NOTE: This recommendation for skill level 10 is valid for the dates 1/91-9/91 only) (3/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic aircraft maintenance, 3 in principles of turbine engines, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/91-2/95 only) (3/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic aircraft maintenance, 3 in principles of turbine engines, 3 in personnel supervision, 3 in maintenance management, 2 in records and information management, and 2 in occupational safety (3/91).

MOS-68D-002

AIRCRAFT POWERTRAIN REPAIRER

68D10

68D20

68D30

Exhibit Dates: 1/90–12/90.

Career Management Field: 67 (Aviation Maintenance), subfield 672 (Aircraft Component Repair).

Description

Summary: Performs maintenance and repair or supervises maintenance on helicopter power train subsystems and components. **Skill Level 10:** Performs maintenance and tests; assists with inspections on helicopter power train subsystems and components; removes and replaces power train quills, transmissions-adapting parts, and rotary wing hub oil tanks; obtains and prepares oil samples for analysis; applies corrosion preventive procedures; cleans, preserves, and stores components; performs maintenance on selected ground support equipment; uses and performs maintenance on common and special tools; uses aircraft forms and records; prepares request for turn-in and repair parts. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; applies troubleshooting techniques to diagnose malfunctions; performs nondestructive inspections on aircraft components; disassembles, repairs, reassembles, adjusts, and tests power train components, systems, and subsystems; balances main and tail rotor hub assembly and aligns main rotor and hub assembly; maintains diagnostic equipment; prepares forms and records. **Skill Level 30:** Able to perform the duties required for Skill Level 20; may serve as technical inspector; plans work; applies production control, quality control, and other maintenance management principles; supervises and evaluates work performance; conducts on-the-job training; monitors shop and flight-line safety.

Recommendation, Skill Level 10

In the vocational certificate category, 12 semester hours in helicopter component maintenance and 3 for technical electives. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technology (or 12 in helicopter component maintenance and 3 for technical electives) (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 12 semester hours in helicopter component maintenance and 3 for technical electives. In the lower-division baccalaureate/associate degree category, 15 semester hours aviation maintenance technology (or 12 in helicopter component maintenance and 3 for technical electives) (5/78).

nance technology (or 12 in helicopter component maintenance and 3 for technical electives) and 3 in aviation maintenance management. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 12 semester hours in helicopter component maintenance and 3 for technical electives. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technology (or 12 in helicopter component maintenance and 3 for technical electives), 3 in aviation maintenance management, 3 in quality control, 3 in flight safety, and 3 in human relations (or a management elective); if the duty position was aircraft power train repair supervisor, 3 semester hours in personnel supervision. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management and 3 in personnel management (5/78).

MOS-68D-003

AIRCRAFT POWERTRAIN REPAIRER

68D10

68D20

68D30

Exhibit Dates: 1/91–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs maintenance and repair or supervises maintenance on helicopter power train subsystems and components. **Skill Level 10:** Performs maintenance and tests; assists with inspections on helicopter power train subsystems and components; removes and replaces power train quills, transmission-adapting parts, and rotary wing hub oil tanks; obtains and prepares oil samples for analysis; applies corrosion preventive procedures; cleans, preserves, and stores components; performs maintenance on selected ground support equipment; uses and performs maintenance on common and special tools; uses certain aircraft forms and records; prepares request for turn-in and repair parts. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; applies troubleshooting techniques to diagnose malfunctions; performs nondestructive inspections on aircraft components; disassembles, repairs, reassembles, adjusts, and tests power train components, systems, and subsystems; balances main and tail rotor hub assembly and aligns main rotor and hub assembly; performs maintenance on diagnostic equipment; prepares forms and records; supervises on-the-job training. **Skill Level 30:** Able to perform the duties required for Skill Level 20; may serve as technical inspector; plans work; applies production control, quality assurance, and other maintenance management principles; supervises and evaluates work performance; conducts on-the-job training; monitors shop and flight-line safety.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic aircraft maintenance and 3 in power trains. (NOTE: This recommendation for skill level 10 is valid for the dates 1/91-9/91 only) (3/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic aircraft maintenance, 3 in power trains, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/91-2/95 only) (3/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic aircraft maintenance, 3 in power trains, 3 in personnel supervision, 3 in maintenance management, 2 in records and information management, 2 in occupational safety, and 3 in nondestructive inspections (3/91).

MOS-68F-002**AIRCRAFT ELECTRICIAN**

68F10

68F20

68F30

Exhibit Dates: 1/90-12/90.

Career Management Field: 67 (Aviation Maintenance), subfield 672 (Aircraft Component Repair).

Description

Summary: Supervises or performs maintenance on aircraft electrical/electronic systems and aircraft crew station instruments. **Skill Level 10:** Removes and replaces electrical/electronic elements of assemblies and components, including electrical wiring, aircraft battery systems, and instruments; applies proper soldering techniques during circuitry repair; cleans, preserves, and stores electrical/electronic components and aircraft instruments; uses and performs maintenance on common and special tools; maintains and repairs ground support equipment; uses aircraft forms and records; prepares requests for turn-in and repair parts. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; applies troubleshooting techniques to diagnose and localize malfunctions to specific electrical/electronic components including solid state and transistorized subsystems; disassembles, repairs, reassembles, adjusts, and tests electrical/electronic elements of assemblies and components; applies principles of pneumatics to troubleshooting of interfacing electropneumatic systems and components; repairs and replaces printed circuits; repairs nickel cadmium batteries; applies principles of electricity/electronics, gyroscopic motion, pneumatics, and hydraulics to repair aircraft instrument subsystems; performs maintenance on diagnostic equipment; prepares forms and records. **Skill Level 30:** Able to perform the duties required for Skill Level 20; may serve as technical inspector; plans work flow; applies production control, quality control, and other maintenance management principles; supervises and evaluates work performance; conducts on-the-job training; monitors shop and flight-line safety.

Recommendation, Skill Level 10

In the vocational certificate category, 12 semester hours in aircraft electrical systems maintenance and repair and 3 for technical electives. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technology (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 12 semester hours in aircraft electrical system maintenance and repair and 3 for technical electives. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technology and 3 in aviation maintenance management. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 12 semester hours in aircraft electrical systems maintenance and repair and 3 for technical electives. In the lower-division baccalaureate/associate degree category, 15 semester hours in aviation maintenance technology, 3 in aviation maintenance management, 3 in quality control, 3 in flight safety, and 3 in human relations (or a management elective); if the duty position was aircraft electrician supervisor section chief, 3 semester hours in personnel supervision. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management and 3 in personnel management (5/78).

MOS-68G-003**AIRCRAFT ELECTRICIAN**

68G10

68G20

68G30

Exhibit Dates: 1/91-Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Supervises or performs maintenance on aircraft electrical/electronic systems and aircraft crew station instruments. **Skill Level 10:** Removes and replaces electrical/electronic elements of assemblies and components, including electrical wiring, aircraft battery systems, and instruments; applies proper soldering techniques during circuitry repair; cleans, preserves, and stores electrical/electronic components and aircraft instruments; uses and maintains common and special tools; maintains and repairs ground support equipment; uses aircraft forms and records; prepares requests for turn-in and repair parts. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; applies troubleshooting techniques to diagnose and localize malfunctions to specific electrical/electronic components including solid state and transistorized subsystems; disassembles, repairs, reassembles, adjusts, and tests electrical/electronic elements of assemblies and components; applies principles of pneumatics to troubleshooting of interfacing electropneumatic systems and components; repairs and replaces printed circuits; repairs nickel cadmium batteries; applies principles of electricity/electronics, gyroscopic motion, pneumatics, and hydraulics to repair aircraft instrument subsystems; performs maintenance on diagnostic equipment; prepares forms and records. **Skill Level 30:** Able to perform the duties required for Skill Level 20; may serve as technical inspector; plans work flow; applies production control, quality assurance and other maintenance management principles; supervises and evaluates work performance; conducts on-the-job training; monitors shop and flight-line safety.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic aircraft maintenance and 3 in basic electronics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/91-9/91 only) (3/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic aircraft maintenance, 3 in basic electronics, 3 in basic electric/electronic circuits, 3 in electronic systems troubleshooting and repair, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/91-2/95 only) (3/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic aircraft maintenance, 3 in basic electronics, 3 in basic electric/electronic circuits, 3 in electronic systems troubleshooting and repair, 3 in personnel supervision, 3 in maintenance management, 2 in records and information management, and 2 in occupational safety (3/91).

MOS-68G-002**AIRCRAFT STRUCTURAL REPAIRER**

68G10

68G20

68G30

Exhibit Dates: 1/90-12/90.

Career Management Field: 67 (Aviation Maintenance), subfield 672 (Aircraft Component Repair).

Description

Summary: Supervises, inspects, or performs maintenance and repair of aircraft structure. **Skill Level 10:** Makes airframe structural repairs by fabrication of new parts using approved fasteners, rivets, special-purpose fasteners, and fiberglass materials; prepares airframe surfaces for painting; mixes and applies primers and paints to aircraft; uses and maintains shop tools and equipment; uses field and technical manuals to make specific repairs. **Skill Level 20:** Able to perform the duties required for Skill Level 10; inspects airframes and components before, during, and after repair or modification to ensure that specifications are met; performs welding maintenance; uses precision measuring gauges and instruments; determines shop and bench stock requirements; prepares or assists in the preparation of requests for parts, tools, and supplies; interprets blueprints; coordinates work load; applies maintenance management principles and procedures to shop operations. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises maintenance; may perform technical inspections on aircraft structures and control surfaces; conducts and supervises on-the-job training; ensures quality and production control; applies management principles and procedures to shop operations; may supervise from 6 to 19 persons; monitors shop and flight-line safety.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in airframe structures, 3 for technical electives, and additional credit in airframe structures on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 9 semester hours in aviation maintenance technology (or 6 in airframe structures and 3 for technical electives).

and additional credit in airframe structures or aviation maintenance technology on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in airframe structures, 3 for technical electives, and additional credit in airframe structures on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 9 semester hours in aviation maintenance technology (or 6 in airframe structures and 3 for technical electives), 3 in aviation maintenance management, and additional credit in airframe structures or aviation maintenance technology on the basis of institutional evaluation. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in airframe structures, 3 for technical electives, and additional credit in airframe structures on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 12 semester hours in aviation maintenance technology (or 9 in airframe structures and 3 for technical electives), 3 in aviation maintenance management, 3 in quality control, 3 in flight safety, 3 in human relations (or a management elective), and additional credit in aviation maintenance technology or airframe structures on the basis of institutional evaluation; if duty position was aircraft structural repair supervisor section chief, 3 semester hours in personnel supervision. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management and 3 in personnel management (5/78).

MOS-68G-003

AIRCRAFT STRUCTURAL REPAIRER

68G10
68G20
68G30

Exhibit Dates: 1/91–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Supervises, inspects, or performs maintenance and repair of aircraft structure. **Skill Level 10:** Makes airframe structural repairs by fabrication of new parts using approved fasteners, rivets, special-purpose fasteners, and fiberglass materials; uses and maintains shop tools and equipment; uses field and technical manuals to make specific repairs. **Skill Level 20:** Able to perform the duties required for Skill Level 10; inspects airframes and components before, during, and after repair or modification to ensure specifications are met; uses precision measuring gauges and instruments; determines shop and bench stock requirements; prepares or assists in the preparation of requests for parts, tools, and supplies; interprets blueprints; coordinates work load; applies maintenance management principles and procedures to shop operations; supervises on-the-job training. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises maintenance; may perform technical inspections on aircraft structures and control surfaces; conducts and supervises on-the-job training; ensures quality and production control; applies management principles and procedures to shop

operations; may supervise from 6 to 19 persons; monitors shop and flight-line safety.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic aircraft maintenance and 3 in airframe structures. (NOTE: This recommendation for skill level 10 is valid for the dates 1/91-9/91 only) (3/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic aircraft maintenance, 3 in airframe structures, and 3 in personnel supervision (3/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic aircraft maintenance, 3 in airframe structures, 3 in personnel supervision, 3 in maintenance management, 2 in occupational safety, and 2 in records and information management (3/91).

MOS-68H-002

AIRCRAFT PNEUDRAULICS REPAIRER

68H10
68H20
68H30

Exhibit Dates: 1/90–12/90.

Career Management Field: 67 (Aviation Maintenance), subfield 672 (Aircraft Component Repair).

Description

Summary: Supervises, inspects, or performs maintenance on aircraft hydraulic systems. **Skill Level 10:** Removes and installs tubing assemblies, hoses, valves, pressure transmitters, and switches; services filters and shock absorbers/struts; repairs tubing assemblies and hydraulic and pneumatic valves; flushes and bleeds hydraulic systems; uses and maintains common and special tools; prepares requests for turn-in and repair parts; uses aircraft forms and records. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; applies troubleshooting techniques to diagnose and localize malfunctions to hydraulic systems, subsystems, and components; disassembles, repairs, reassembles, adjusts, and tests hydraulic systems, subsystems, and components; maintains selected items of ground support equipment; prepares forms and records. **Skill Level 30:** Able to perform the duties required for Skill Level 20; applies production/quality control and maintenance management principles and procedures to shop operations; plans work flow; conducts and supervises on-the-job training; may perform technical inspections on electrical/electronic and subsystems components before, during, and after repair or modification; may supervise from 6 to 19 persons.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in aircraft hydraulic system maintenance, 3 for technical electives, and additional credit in aircraft hydraulic system maintenance on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 9 semester hours in aviation maintenance technology (or 6 in aircraft hydraulic system maintenance and 3 for technical electives), 3 in aviation maintenance management, and additional credit in aviation maintenance technology or aircraft hydraulic

system maintenance on the basis of institutional evaluation (5/78).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in aircraft hydraulic system maintenance, 3 for technical electives, and additional credit in aircraft hydraulic system maintenance on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 9 semester hours in aviation maintenance technology (or 6 in aircraft hydraulic system maintenance and 3 for technical electives), 3 in aviation maintenance management, and additional credit in aviation maintenance technology or aircraft hydraulic system maintenance on the basis of institutional evaluation. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management (5/78).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in aircraft hydraulic system maintenance, 3 for technical electives, and additional credit in aircraft hydraulic system maintenance on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 12 semester hours in aviation maintenance technology (or 9 in aircraft hydraulic system maintenance and 3 in technical electives), 3 in aviation maintenance management, 3 in quality control, 3 in flight safety, 3 in human relations (or a management elective), and additional credit in aviation maintenance management or aircraft hydraulic system maintenance on the basis of institutional evaluation; if the duty position was aircraft pneumatics repair supervisor section chief, 3 semester hours in personnel supervision. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management and 3 in personnel management (5/78).

MOS-68H-003

AIRCRAFT PNEUDRAULICS REPAIRER

68H10
68H20
68H30

Exhibit Dates: 1/91–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Supervises, inspects, or performs maintenance on aircraft hydraulic systems. **Skill Level 10:** Removes and installs tubing assemblies, hoses, valves, pressure transmitters, and switches; services filters and shock absorbers/struts; repairs tubing assemblies and hydraulic and pneumatic valves; flushes and bleeds hydraulic systems; uses and maintains common and special tools; prepares requests for turn-in and repair parts; uses aircraft forms and records. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; applies troubleshooting techniques to diagnose and localize malfunctions to hydraulic systems, subsystems, and components; maintains selected items of ground support equipment; prepares forms and records; supervises on-the-job training. **Skill Level 30:** Able to perform the duties required for Skill Level 20; applies production/quality assurance and maintenance management principles and procedures to shop operations; plans work flow; conducts and

supervises on-the-job training; may perform technical inspections of electrical/electronic and subsystems components before, during, and after repair or modification; may supervise from 6 to 19 persons.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft fluid power. (NOTE: This recommendation for skill level 10 is valid for the dates 1/91-9/91 only) (3/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic aircraft maintenance, 3 in aircraft fluid power, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/91-2/95 only) (3/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic aircraft maintenance, 3 in aircraft fluid power, 3 in personnel supervision, 3 in maintenance management, 2 in records and information management, and 2 in occupational safety (3/91).

MOS-68J-004

AIRCRAFT ARMAMENT/MISSILE SYSTEMS REPAIRER

68J10

68J20

68J30

68J40

Exhibit Dates: 1/90–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs electrical and electronic maintenance on aircraft fire control systems, armament systems, and ground support equipment. **Skill Level 10:** Removes, installs, assembles, disassembles, and performs maintenance on aircraft fire control systems; repairs and/or replaces electrical and electronic components. **Skill Level 20:** Able to perform the duties required for Skill Level 10; tests and troubleshoots electrical and electronic components of fire control systems using schematics and test equipment. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises maintenance and performs technical inspections on fire control systems; plans and supervises on-the-job training; supervises eight or more persons. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises all maintenance activities; determines personnel and parts requirements; coordinates work schedules and assigns duties; applies production, quality control, and other maintenance management principles and procedures; prepares evaluations, special reports, and maintenance records; supervises technical training programs; assists in the preparation of plans and policies; controls the flow of work orders, requisitions, and correspondence; plans the layout of aircraft weapons and fire control system maintenance areas and facilities; advises personnel in diagnosing complex malfunctions.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (3/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic systems troubleshooting and repair, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (3/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic systems troubleshooting and repair, 3 in personnel supervision, 1 in occupational safety, 3 in maintenance management, and 2 in records and information management (3/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic systems troubleshooting and repair, 3 in personnel supervision, 2 in occupational safety, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/91).

MOS-68K-001

AIRCRAFT COMPONENTS REPAIR SUPERVISOR

68K40

Exhibit Dates: 1/90–12/90.

Career Management Field: 67 (Aviation Maintenance), subfield 672 (Aircraft Component Repair).

Description

Able to perform the duties required for skill level 30 in at least one of the following MOS's: 68B (Aircraft Power Plant Repairer), 68D (Aircraft Powertrain Repairer), 68F (Aircraft Electrician), 68G (Aircraft Structural Repairer), 68H (Aircraft Pneumatics Repairer), 68J (Helicopter Missile System Repairer), or 68M (Helicopter Weapon Systems Repairer); supervises maintenance operations of aircraft component repairs; plans work loads in terms of resources and facilities; applies production control, quality control, and other maintenance management principles to aircraft component repair; supervises and evaluates the work performance of a minimum of 20 persons; orients and instructs subordinates; conducts on-the-job training programs.

Recommendation

In the upper-division baccalaureate category, 3 semester hours in maintenance management and 3 for field experience in personnel management (5/78).

MOS-68K-002

AIRCRAFT COMPONENTS REPAIR SUPERVISOR

68K40

Exhibit Dates: 1/91–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Able to supervise the duties of the following MOS's: 68B (Aircraft Powerplant Repairer), 68D (Aircraft Powertrain Repairer), 68F (Aircraft Electrician), 68G (Aircraft Structural Repairer), and 68H (Aircraft Pneumatics Repairer); supervises maintenance operations of aircraft component repairs; plans work load in terms of resources and facilities; applies pro-

duction control, quality assurance, and other maintenance management principles to aircraft component repair; supervises and evaluates the work performance of 20 or more persons; orients and instructs subordinates; conducts on-the-job training. (NOTE: May have progressed from skill level 30 of MOS 68B, 68D, 68F, 68G, or 68H)

Recommendation

In the upper-division baccalaureate category, 3 semester hours for field experience in management. (NOTE: Add credit for skill level 30 of previously-held MOS (3/91).

MOS-68L-001

AVIONIC COMMUNICATIONS EQUIPMENT REPAIRER

68L10

68L20

68L30

Exhibit Dates: 1/90–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs intermediate maintenance or repairs (to the component level) on avionic communications equipment. **Skill Level 10:** Performs intermediate maintenance, within a shop environment, on aircraft communications equipment including very high frequency, ultra high, and high frequency AM and FM receivers and transmitters and intercom and electronic interface devices. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises, trains, and counsels subordinates; requisitions parts; keeps records. **Skill Level 30:** Able to perform the duties required for Skill Level 20; initiates quality assurance programs; supervises subordinates; handles requisitions and communication with superiors; develops training programs.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance, 2 in avionic communications systems, 3 in basic electronics laboratory, and 2 in basic electronics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (3/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance, 3 in avionic communications systems, 3 in basic electronics laboratory, 3 in basic electronics, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (3/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance, 3 in avionic communications systems, 3 in basic electronics laboratory, 3 in basic electronics, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (3/91).

MOS-68N-001

AVIONIC MECHANIC

68N10

68N20

68N30

Exhibit Dates: 1/90–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs unit maintenance on tactical security systems (COMSEC), communications, navigation, transponder, and flight control equipment installed in aircraft; maintains aircraft antennas and associated aircraft wiring; aligns radar antennas. *Skill Level 10:* Performs troubleshooting procedures to the level of individual units; removes and replaces modules of security systems, communications, navigation, transponder, and flight control equipment and their associated wiring and antennas; checks performance of individual systems. *Skill Level 20:* Able to perform the duties required for Skill Level 10; coordinates maintenance schedules; trains and assists subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; coordinates and supervises unit and intermediate avionic maintenance on all aircraft; implements quality assurance programs; supervises training; coordinates tasks with superiors; maintains equipment forms and records.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance, 2 in basic electronics, and 2 in avionics systems. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (3/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance, 3 in basic electronics, 3 in avionics systems, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (3/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance, 3 in basic electronics, 3 in avionics systems, 3 in personnel supervision, 3 in maintenance management, 2 in records and information management, and 2 in occupational safety (3/91).

MOS-68P-001

AVIONIC MAINTENANCE SUPERVISOR
68P40

Exhibit Dates: 1/90–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Able to supervise the duties of the following MOS's: 68L (Avionic Communications Equipment Repairer), 68N (Avionic Mechanic), 68Q (Avionic Flight Systems Repairer), and 68R (Avionic Radar Repairer); supervises intermediate and depot maintenance of aviation communications, navigation, radar, flight control and other electronic/electrical systems associated with Army aircraft; supervises production and quality assurance procedures; inspects work areas and maintenance equipment; assists in installation and modification of complex equipment; plans and schedules overall maintenance; provides technical advice; enforces shop safety procedures; supervises the maintenance of equipment records, spare parts, and supplies;

reviews and directs appropriate action on technical directives; recommends changes to maintenance publications and drawings; supervises and participates in studies, evaluations, special reports, and records pertaining to radar, communications, flight controls, automatic test equipment, maintenance operations, and training issues; develops and supervises training programs for avionic maintenance personnel. NOTE: May have progressed to 68P40 from skill level 30 of 68N, 68L or 68R.

Recommendation

In the upper-division baccalaureate category, 3 semester hours for field experience in management. NOTE: Add credit for skill level 30 of previously-held MOS (3/91).

MOS-68Q-001

AVIONIC FLIGHT SYSTEMS REPAIRER
68Q10
68Q20
68Q30

Exhibit Dates: 1/90–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs intermediate maintenance or repairs on avionic navigation, flight control, and stabilization equipment. *Skill Level 10:* Performs, within a shop environment, intermediate repair of such flight control equipment as marker beacons, radio direction finders, tactical bearing and range equipment, instrument landing systems, and auto pilot and stabilization equipment; replaces parts to the component level. *Skill Level 20:* Able to perform the duties required for Skill Level 10; calibrates, repairs, and documents test instruments; trains and counsels subordinates; assists in maintenance duties. *Skill Level 30:* Able to perform the duties required for Skill Level 20; initiates quality assurance programs; supervises subordinates; handles requisitions, records, and communication with superiors; develops training programs.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance, 2 in airborne electronic navigation systems, 3 in basic electronics laboratory, and 2 in basic electronics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (3/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance, 3 in airborne electronic navigation systems, 3 in basic electronics laboratory, 3 in basic electronics, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (3/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance, 3 in airborne electronic navigation systems, 3 in basic electronics laboratory, 3 in basic electronics, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (3/91).

MOS-68R-001

AVIONIC RADAR REPAIRER
68R10
68R20
68R30

Exhibit Dates: 1/90–Present.

Career Management Field: 67 (Aircraft Maintenance).

Description

Summary: Performs intermediate and depot maintenance on avionic radar equipment. *Skill Level 10:* Performs organizational maintenance on test, diagnostic, and measurement equipment used to diagnose problems in avionic radar equipment; assists in intermediate maintenance of avionic airborne radar equipment, including terrain-following avoidance radars, Doppler navigation radars, weather radars, radar altimeters, radar transponders, navigational distance and bearing equipment, and inertial navigation instruments. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs maintenance on special test equipment and avionic equipment; trains subordinates; prepares maintenance records and requisitions; repairs circuit boards; tests support equipment for the OH-58D helicopter. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists establishing production and quality assurance programs; teaches maintenance practices and techniques; supervises and inspects the maintenance of avionic radar equipment; develops training programs; provides technical assistance to subordinates; assists in the development of new types of electronic equipment; maintains equipment records, technical literature, and spare parts; inspects maintenance procedures for quality.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems troubleshooting and maintenance, 2 in radar systems, 3 in basic electronics laboratory, and 2 in basic electronics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (3/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance, 3 in radar systems, 3 in basic electronics laboratory, 3 in basic electronics, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (3/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic systems troubleshooting and maintenance, 3 in radar systems, 3 in basic electronics laboratory, 3 in basic electronics, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management (3/91).

MOS-68X-001

AH-64 ARMAMENT/ELECTRICAL SYSTEMS
REPAIRER
(Armament/Electrical Systems Repairer)
68X10
68X20
68X30
68X40

Exhibit Dates: 4/92–Present.

Description

Summary: Supervises and performs maintenance on AH-64 armament/electrical systems at the unit, intermediate, and depot level, maintains and repairs electrical, electronics, mechanical, and pneumatic systems associate with AH-64 armament, missile, fire control, electrical, and instrument systems. *Skill Level 10:* Performs aviation unit, intermediate and depot maintenance on AH-64 armament electrical systems, integrated electronic/instrument systems, fire control/missile systems, and auxiliary ground support equipment; isolates faults, diagnoses, troubleshoots, and repairs malfunctions to specific armament, electrical, instrument and fire control systems and components including solid state and transistorized subsystems; repairs, disassembles, and assembles equipment according to technical manuals, directives, and safety procedures; uses test sets and diagnostic equipment; maintains records on weapons and subsystems. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides guidance to subordinate personnel on technical aspects of duties. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and performs extensive diagnostic checks and services; plans work flow; conducts technical training and instruction; applies production control and quality control principles and procedures; evaluates subordinates; inspects maintenance to ensure that repairs are performed within prescribed specifications; monitors shop and flight line safety procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 30; plans and manages AH-64 armament/electrical system maintenance areas and facilities; coordinates work, assigns duties, and instructs subordinates; advises in diagnosing complex malfunctions; ensures that shop safety principles and procedures are observed; prepares evaluations and special reports.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (1/96).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in aircraft/avionics maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft/avionics maintenance technology. (NOTE: This recommendation for skill level 20 is valid for the dates 4/92-2/95 only) (1/96).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in aircraft/avionics maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft/avionics maintenance technology and 2 in records and information management (1/96).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in aircraft/avionics maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft/avionics maintenance technology, 3 in personnel supervision, 3 in maintenance management, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management (1/96).

MOS-71C-003**EXECUTIVE ADMINISTRATIVE ASSISTANT**

71C10

71C20

71C30

Exhibit Dates: 1/90-3/94.

Career Management Field: 71 (Administration), subfield 711 (General Administration).

Description

Summary: Types correspondence, forms, and reports; transcribes recorded dictation; performs general office duties; maintains files; uses word processing equipment; drafts routine correspondence; may supervise office operations. *Skill Level 10:* Types at a minimum speed of 45 net words per minute; handles incoming and outgoing correspondence; types correspondence, forms, and reports; transcribes recorded dictation; files information and maintains files; proofreads and corrects work; serves as receptionist; prepares schedules and handles protocol matters; requisitions publications and forms; drafts routine correspondence. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assumes some responsibility for assigning and verifying work of others; types at a minimum of 50-55 net words per minute. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as secretary to general offices; plans and organizes office operations; prepares correspondence and writes procedures and directives.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in machine transcription, 3 in business communication, 2 in filing and records management, 2 in clerical record keeping, 2 in office procedures, and 2 in word processing. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (3/84).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in typing, 3 in machine transcription, 3 in business communication, 2 in filing and records management, 2 in clerical record keeping, 2 in office procedures, 2 in word processing, and 2 for a practicum in office procedures (3/84).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in typing, 3 in machine transcription, 3 in business communication, 2 in filing and records management, 2 in clerical record keeping, 2 in office procedures, 2 in word processing, 2 for a practicum in office procedures, and 2 in office management (3/84).

MOS-71C-004**EXECUTIVE ADMINISTRATIVE ASSISTANT**

71C10

71C20

71C30

Exhibit Dates: 4/94-Present.

Career Management Field: 71 (Administration).

Description

Summary: Types correspondence, forms, and reports; transcribes recorded dictation; performs general office duties; maintains files; uses word processing equipment; drafts routine cor-

respondence, may supervise office operations. *Skill Level 10:* Types at a minimum speed of 45 net words per minute; handles incoming and outgoing correspondence; types correspondence, forms, and reports; transcribes recorded dictation; files information and maintains files; proofreads and corrects work; serves as receptionist; prepares schedules and handles protocol matters; requisitions publications and forms; drafts routine correspondence. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assumes some responsibility for assigning and verifying work of others; types at a minimum of 50-55 net words per minute. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as secretary to general offices; plans and organizes office operations; prepares correspondence and writes procedures and directives.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (4/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in machine transcription, 3 in business communication, 3 in filing and records management, 3 in office procedures, 6 in word processing, and 3 for field experience in personnel procedures. (NOTE: This recommendation for skill level 20 is valid for the dates 4/94-2/95 only) (4/94).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in machine transcription, 3 in business communication, 3 in filing and records management, 3 in office procedures, 6 in word processing, 3 in office management, and 3 for field experience in personnel procedures (4/94).

MOS-71D-002**LEGAL SPECIALIST**

71D10

71D20

71D30

71D40

71D50

Exhibit Dates: 1/90-12/90.

Career Management Field: 71 (Administration), subfield 714 (Legal).

Description

Summary: Performs or supervises the preparation of court martial records, board proceedings, preliminary hearings, and investigations. *Skill Level 10:* Under close supervision, assists in preparing legal papers and forms, conducting investigations and researching activities, and in maintaining files; types at a minimum of 30 words per minute; assists in maintaining law library. *Skill Level 20:* Able to perform the duties required for Skill Level 10; prepares correspondence; compiles records into quarterly reports; provides legal assistance (military and civil); makes referrals as needed. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a legal office or maintains a law library; provides guidance to subordinates; maintains files. *Skill Level 40:* Able to perform the duties required for Skill Level 30; plans and organizes legal office operation; previews legal documentation for proper and prompt disposition; researches decisions, statutes, and regulations under supervision of a judge advocate or civilian attorney. *Skill Level*

50: Able to perform the duties required for Skill Level 40; supervises the administrative functions of a large legal office; prepares budgets; plans programs.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office practices, 3 in legal terminology, and 3 in English composition (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office practices, 3 in business communication or technical writing, 3 in legal terminology, 2 in military legal practices and procedures, and 3 in English composition (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office practices, 3 in business communication or technical writing, 3 in legal terminology, 3 in military legal practices and procedures, 3 in English composition, 3 in human relations, and 3 in office management (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office practices, 3 in business communication or technical writing, 3 in legal terminology, 3 in military legal practices and procedures, 3 in English composition, 3 in human relations, 3 in office management, and 3 in introduction to management. In the upper-division baccalaureate category, 3 semester hours for field experience in office management (6/78).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office practices, 3 in business communication or technical writing, 3 in legal terminology, 3 in military legal practices and procedures, 3 in English composition, 3 in human relations, 3 in office management, and 3 in introduction to management. In the upper-division baccalaureate category, 6 semester hours for field experience in office management (6/78).

MOS-71D-003

LEGAL SPECIALIST

71D10
71D20
71D30
71D40
71D50

Exhibit Dates: 1/91-7/94.

Career Management Field: 71 (Administration).

Description

Summary: Prepares or supervises the preparation of court martial records, board proceedings, preliminary hearings, and investigations. **Skill Level 10:** Under close supervision, assists in preparing legal papers and forms, conducting investigations and researching activities, and maintaining files; types at a minimum of 30 words per minute; assists in maintaining law library. **Skill Level 20:** Able to perform the duties required for Skill Level 10; prepares correspondence; interview clients to determine nature of problem; compiles records into quarterly reports; provides legal assistance (military and civil); refers legal problems to attorney; makes referrals as needed. **Skill Level 30:** Able

to perform the duties required for Skill Level 20; supervises a legal office or maintains a law library; provides guidance to subordinates; responsible for maintaining files; reviews claims and conducts claim investigations. **Skill Level 40:** Able to perform the duties required for Skill Level 30; plans and organizes legal office operation; previews legal documentation for proper and prompt disposition; researches decisions, statutes, and regulations under supervision of a judge advocate or civilian attorney. **Skill Level 50:** Able to perform the duties required for Skill Level 40; supervises the administration of a large legal office; prepares budgets; plans programs; secures special proceedings, highly sensitive or specially-handled documents, or evidence; assigns duties; evaluates performance of subordinates.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in legal research, 3 in typewriting, 3 in office practices, and 3 in English composition. (NOTE: This recommendation for skill level 10 is valid for the dates 1/91-9/91 only) (4/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in legal research, 3 in typewriting, 3 in office practices, 3 in English composition, 3 in legal writing, 3 in military legal practices and procedures, 3 in office management, and 3 in litigation (civil) (4/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in legal research, 3 in typewriting, 3 in office practices, 3 in English composition, 3 in legal writing, 3 in military legal practices and procedures, 3 in office management, 3 in litigation (civil), and 3 in personnel supervision (4/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in legal research, 3 in typewriting, 3 in office practices, 3 in English composition, 3 in legal writing, 3 in military legal practices and procedures, 3 in office management, 3 in litigation (civil), and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in organizational management (4/91).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in legal research, 3 in typewriting, 3 in office practices, 3 in English composition, 3 in legal writing, 3 in military legal practices and procedures, 3 in office management, 3 in litigation (civil), and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (4/91).

MOS-71D-004

LEGAL SPECIALIST

71D10
71D20
71D30
71D40
71D50

Exhibit Dates: Pending Evaluation. 8/94-Present.

MOS-71E-004

COURT REPORTER

71E20
71E30
71E40

Exhibit Dates: 1/90-12/90.

Career Management Field: 71 (Administration), subfield 714 (Legal).

Description

Summary: Takes notes of activities and statements in legal proceedings and prepares them for inclusion in official legal documents. **Skill Level 20:** Able to perform the duties required for skill level 10 of MOS 71D (Legal Clerk); takes notes at legal proceedings at a minimum of 175 words per minute, usually by means of a stenomask (an oral dictating machine), although stenotype or shorthand may be used; transcribes testimony at a minimum speed of 40 words per minute; maintains the records of military legal proceedings; uses English grammar, punctuation, and composition skills. **NOTE:** Required to have held skill level 10 of MOS 71D (Legal Clerk). **Skill Level 30:** Able to perform the duties required for Skill Level 20; may provide technical guidance to subordinates. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises and assists subordinates; coordinates work assignments.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in typing, 9 in dictation and transcription, 2 in business communication or technical writing, 3 in English grammar and composition, and 3 in office procedures (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in typing, 9 in dictation and transcription, 2 in business communication or technical writing, 3 in English grammar and composition, and 3 in office procedures (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in typing, 9 in dictation and transcription, 2 in business communication or technical writing, 3 in English grammar and composition, 3 in office procedures, 3 in office management, and 3 in legal practices and procedures (6/78).

MOS-71E-005

COURT REPORTER

71E20
71E30
71E40

Exhibit Dates: 1/91-12/94. (Effective 12/94, MOS 71E was discontinued, and its duties were incorporated into MOS 71D).

Career Management Field: 71 (Administration).

Description

Summary: Takes notes of activities and statements in legal proceedings and prepares them for inclusion in official legal documents. **Skill Level 20:** Able to perform the duties required for skill level 10 of MOS 71D (Legal Clerk); takes notes at legal proceedings at a minimum of 175 words per minute, usually by means of a stenomask (an oral dictating machine),

although stenotype or shorthand may be used; transcribes testimony at a minimum speed of 40 words per minute; maintains the records of military legal proceedings; uses English grammar, punctuation, and composition skills; adheres to American Bar Association code of professional responsibilities and standards of criminal justice. **NOTE:** Required to have held skill level 10 of MOS 71D (Legal Specialist). **Skill Level 30:** Able to perform the duties required for Skill Level 20; may provide technical guidance to subordinates; under the supervision of an attorney, interviews witnesses and evaluates potential testimony; performs legal and administrative research. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises and assists subordinates; coordinates work assignments; conducts legal research using military appellate court decisions, federal statutes, regulations, and local law and court decisions.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in English composition, 6 in typewriting, 9 in dictation and transcription, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in technical writing (4/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in English composition, 6 in typewriting, 9 in dictation and transcription, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in technical writing (4/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in English composition, 6 in typewriting, 9 in dictation and transcription, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in technical writing, 3 in organizational management, and 3 for field experience in management (4/91).

MOS-71G-002

PATIENT ADMINISTRATION SPECIALIST

71G10
71G20
71G30
71G40
71G50

Exhibit Dates: 1/90-3/92.

Career Management Field: 91 (Medical), subfield 914 (Medical Support).

Description

Summary: Supervises or performs administrative duties in patient administration division of hospital or other medical activity. **Skill Level 10:** Performs patient administrative duties; applies knowledge of basic medical terminology including construction or composition of medical terms; applies knowledge of provisions and limitations of Freedom of Information and Privacy Acts; receives patients being admitted to medical facility; interviews patients and reviews records and available data to obtain necessary information for preparation of admission records including patient data cards and appropriate records and forms, depending upon type of patient, illness or injury, and urgency of

required treatment; receives valuables and monies from patients and deposits into patient's trust fund; initiates required notification of patient admission to unit commanders or other headquarters; compiles data for preparation and prepares daily admission and disposition reports; performs administrative duties and prepares appropriate forms to process and report very seriously ill patients including notification of next of kin and progress reports; prepares and dispatches casualty reports; prepares appropriate forms or letters and performs necessary administrative duties to evacuate or transfer patients to other medical facilities; completes forms and reports and performs tasks regarding disposition of personal effects; computes various charges for pay patients; performs administrative action involving third party liability; applies knowledge of administrative terminology to medical records; keeps repository for military health records and dependents' medical records of hospital, clinic, outpatient service, or dispensary; classifies, indexes, and files record folders in repository; reviews medical record for adequacy and completeness based upon nature of case and treatment given; answers inquiries and provides information on medical records; compiles statistical data pertaining to admission, diagnosis, treatment, and disposition of patients; prepares statistical tables, charts, and graphs on medical data; prepares reports and data on births, deaths, and reportable conditions for submission to military and civilian health authorities and to appropriate legal and governmental agencies; initiates correspondence pertaining to medical records, medical board proceedings, and lines of duty investigation; answers inquiries on results of board actions, eligibility for medical care under Uniform Service Health Benefit Program; prepares necessary medical forms to convene the medical board to determine medical fitness for duty; types military and nonmilitary letters, endorsements, disposition forms, messages, and special medical forms and documents in draft and final form; maintains nonmedical files. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; performs administrative duties in medical, surgical, or similar department of the hospital, including obtaining records from repository, posting entries onto medical record, returning records, and coordinating administrative responsibilities with other departments. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises subordinates; assigns tasks to subordinates, ensuring efficient work flow and timely accomplishment of tasks regarding patient record keeping and the movement of patients; instructs personnel in performance of assigned tasks and instills understanding of need for timely and precise completion and posting of records and an appreciation of the sensitivity and confidentiality of the actions performed. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises a medium-sized patient administration activity or hospital department. **Skill Level 50:** Able to perform the duties required for Skill Level 40; supervises a large patient administration activity or hospital department.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in medical administrative techniques, 2 in medical record

keeping, 2 in medical records administration, 2 in medical terminology, and 1 typing. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/90 9/91 only.) (1/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in medical administrative techniques, 2 in medical record keeping, 2 in medical records administration, 2 in medical terminology, 1 in typing, 2 in personnel supervision, and 1 in medical statistical reporting (1/82).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in medical administrative techniques, 2 in medical record keeping, 2 in medical records administration, 2 in medical terminology, 1 in typing, 2 in personnel supervision, 1 in medical statistical reporting, 2 in business communication, and 1 in human relations (1/82).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in medical administrative techniques, 2 in medical record keeping, 2 in medical records administration, 2 in medical terminology, 1 in typing, 3 in personnel supervision, 1 in medical statistical reporting, 2 in business communication, and 3 in human relations. In the upper-division baccalaureate category, 3 semester hours for field experience in office management, 2 for field experience in hospital administration, and 2 in introduction to management (1/82).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 2 semester hours in medical administrative techniques, 2 in medical record keeping, 2 in medical records administration, 2 in medical terminology, 1 in typing, 3 in personnel supervision, 1 in medical statistical reporting, 2 in business communication, and 3 in human relations. In the upper-division baccalaureate category, 3 semester hours for field experience in office management, 3 for field experience in hospital administration, and 3 in introduction to management (1/82).

MOS-71G-003

PATIENT ADMINISTRATION SPECIALIST

71G10
71G20
71G30
71G40
71G50

Exhibit Dates: 4/92-Present.

Career Management Field: 91 (Medical).

Description

Summary: Supervises or performs administrative duties in patient administration division of hospital or other medical activity. **Skill Level 10:** Performs patient administrative duties; applies knowledge of basic medical terminology, including construction or composition of medical terms; applies knowledge of provisions and limitations of Freedom of Information and Privacy Acts; receives patients; interviews patients and reviews records and available data to obtain necessary information for preparation of admission records including patient data cards and appropriate records and forms, depending upon type of patient, illness or injury, and urgency of required treatment;

receives valuables and monies from patients and deposits into patient's trust fund; initiates required notification of patient admission to unit commanders or other headquarters; compiles data for preparation and prepares daily admission and disposition reports; performs administrative duties and prepares appropriate forms to process and report very seriously ill patients including notification of next of kin and progress reports; prepares and dispatches casualty reports; prepares appropriate forms or letters and performs necessary administrative duties to evacuate or transfer patients to other medical facilities; completes forms and reports and performs tasks regarding disposition of personal effects; computes various charges for pay patients; performs administrative action involving third party liability; applies knowledge of administrative terminology to medical records; keeps repository for military health records and dependents' medical records for hospital, clinic, outpatient service, or dispensary; classifies, indexes, and files record folders in repository; reviews medical record for adequacy and completeness based upon nature of case and treatment given; answers inquiries and provides information on medical records; compiles statistical data pertaining to admission, diagnosis, treatment, and disposition of patients; prepares statistical tables, charts, and graphs on medical data; prepares reports and data on births, deaths, and reportable conditions for submission to military and civilian health authorities and to appropriate legal and governmental agencies; initiates correspondence pertaining to medical records, medical board proceedings, and lines of duty investigation; answers inquiries on results of board actions, eligibility for medical care under Uniform Service Health Benefit Program; prepares necessary medical forms to convene the medical board to determine medical fitness for duty; types military and nonmilitary letters, endorsements, disposition forms, messages, and special medical forms and documents in draft and final form; maintains nonmedical files. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; performs administrative duties in medical, surgical, or similar department of the hospital, including obtaining records from repository, posting entries onto medical records, returning records, and coordinating administrative responsibilities with other departments. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises subordinates; assigns tasks to subordinates, ensuring efficient work flow and timely accomplishment of tasks regarding patient record keeping and the movement of patients; instructs personnel in performance of assigned tasks and instills understanding of need for timely and precise completion and posting of records and an appreciation of the sensitivity and confidentiality of the actions performed. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a medium-sized patient administration activity or hospital department. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises a large patient administration activity or hospital department.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in introduction to medical record technology, 4 in directed practice in medical record technology, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 4/92-2/95 only) (4/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in introduction to medical record technology, 5 in directed practice in medical record technology, 3 in personnel supervision, and 2 in records and information management (4/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in introduction to medical record technology, 6 in directed practice in medical record technology, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (4/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 4 semester hours in introduction to medical record technology, 6 in directed practice in medical record technology, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (4/92).

MOS-71L-002

ADMINISTRATIVE SPECIALIST

71L10
71L20
71L30
71L40
71L50

Exhibit Dates: 1/90-11/92.

Career Management Field: 71 (Administration), subfield 711 (General Administration).

Description

Summary: Supervises or performs administrative, clerical, and typing duties; types a minimum of 25 net words a minute. *Skill Level 10:* Types routine correspondence, messages, reports, and forms; serves as a receptionist; answers the telephone; handles incoming mail and messages; maintains files; uses copying equipment; receives and maintains publications. *Skill Level 20:* Able to perform the duties required for Skill Level 10; prepares special correspondence; composes routine correspondence; proofreads correspondence for proper format and accuracy; provides technical guidance to typists and clerical personnel; prepares charts, graphs, and rosters. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises personnel performing typing, general clerical, and administrative duties; distributes work load; reviews and edits correspondence; sets up and reviews files; controls duplicating facilities; plans and organizes office operations; determines requirements for office equipment, supplies, and space. *Skill Level 40:*

Able to perform the duties required for Skill Level 30; performs supervisory duties at a higher level of command. NOTE: May have progressed to 71L40 from 71L30 or 71C30 (Stenographer). *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises performance of administrative functions at higher level headquarters; provides guidance and engages in public relations activities. NOTE: May have progressed to 71L50 from 71L40 or 03C40 (Physical Activities Specialist).

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in typing, 2 in record keeping, 1 in business communication, and 3 in office procedures. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in typing, 2 in business communication, 2 in record keeping, and 4 in office procedures (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in typing, 3 in business communication, 2 in record keeping, 4 in office procedures, 3 for field experience in office practices, 3 in office management, and 3 in human relations (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in typing, 3 in business communication, 2 in record keeping, 4 in office procedures, 3 for field experience in office practices, 3 in office management, 3 in human relations, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in personnel management (6/78).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 2 semester hours in typing, 3 in business communication, 2 in record keeping, 3 in records administration, 4 in office procedures, 3 in office management, 3 for field experience in office practices, 4 in human relations, 2 in public relations, 3 in personnel supervision, and 3 for field experience in office management. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for field experience in management (6/78).

MOS-71L-003

ADMINISTRATIVE SPECIALIST

71L10
71L20
71L30
71L40
71L50

Exhibit Dates: 11/92-Present.

Career Management Field: 71 (Administration).

Description

Summary: Supervises or performs administrative, clerical, and keyboarding duties (at a minimum of 35 words a minute). *Skill Level 10:* Types routine correspondence, messages, reports, and forms; serves as a receptionist; answers the telephone; handles incoming mail and messages; maintains files; uses copying

equipment; receives and maintains publications; performs data entry. *Skill Level 20:* Able to perform the duties required for Skill Level 10; prepares special correspondence; composes routine correspondence; proofreads correspondence for proper format and accuracy; provides technical guidance to typists and clerical personnel; prepares charts, graphs, and rosters. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises personnel performing keyboarding, general clerical, and administrative duties; distributes work load; reviews and edits correspondence; sets up and reviews files; controls duplicating facilities; plans and organizes office operations; determines requirements for office equipment, supplies, and space. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs supervisory duties at a higher level of command. NOTE: May have progressed to 71L40 from 71L30 or 71C30 (Executive Administrative Assistant). *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises performance of administrative functions at higher level headquarters; provides guidance; engages in public relations activities.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in keyboarding, 2 in record keeping, 2 in business communication, 4 in office procedures, and 3 in computer applications. (NOTE: This recommendation for skill level 20 is valid for the dates 11/92-2/95 only) (11/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in keyboarding, 2 in record keeping, 3 in business communication, 4 in office procedures, 3 in computer applications, 3 for field experience in office practices, 3 in office management, and 3 in personnel supervision (11/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in keyboarding, 2 in record keeping, 3 in business communication, 4 in office procedures, 3 in computer applications, 3 for field experience in office practices, 3 in office management, and 3 in personnel supervision. In the upper-division baccalaureate category, 2 semester hours in human resource management and 3 for field experience in management (11/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 2 semester hours in keyboarding, 2 in record keeping, 3 in business communication, 4 in office procedures, 3 in computer applications, 3 for field experience in office practices, 3 in office management, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in human resource management and 6 for field experience in management; if paygrade E-9 has been attained, additional credit may be granted as follows: 3 semester hours in management problems and 3 in communication techniques for managers (11/92).

MOS-71M-003

CHAPLAIN ASSISTANT

71M10
71M20
71M30
71M40
71M50

Exhibit Dates: 1/90-5/90.

Career Management Field: 71 (Administration)

Description

Summary: Acts as administrative assistant to a military chaplain; performs or supervises office activities such as preparing correspondence and maintaining records; assists the chaplain in preparing for chapel and religious programs; comparable to a civilian hospital chaplain's assistant or administrative assistant in a church or synagogue. *Skill Level 10:* Prepares facility for services; prepares programs and bulletins; prepares schedules and religious materials; operates and maintains audiovisual equipment; acts as receptionist; answers routine inquiries; requisitions, receives, and maintains equipment and supplies; types letters, messages, forms, and records; maintains files. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; assists in planning and programming religious services and education requirements. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance to personnel; participates in preparation of budget; maintains fund records including disbursements, receipts, and petty cash. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises subordinates; coordinates volunteer, part time, and other personnel; reviews prepared correspondence and reports; participates in planning and programming religious activities. *Skill Level 50:* Able to perform the duties required for Skill Level 40; performs supervisory and management duties in large installation.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in business communication, 2 in communication skills, 1 in filing, 1 in office management, and 2 in introduction to audiovisual equipment (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in office management, 3 in communication skills, 1 in filing, 3 in business communication, and 2 in introduction to audiovisual equipment (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in office management, 3 in communication skills, 1 in filing, 3 in business communication, 2 in introduction to audiovisual equipment, 2 in budget administration, and 3 in human relations (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in office management, 1 in filing, 3 in business communication, 6 in communication skills, 2 in introduction to audiovisual equipment, 2 in budget administration, and 3 in human relations. In the upper-division baccalaureate category, 3 semester hours in public relations (6/78).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in office management, 1 in filing, 3 in business communication, 6 in communication skills, 2 in introduction to audiovisual equipment, 2 in budget administration, 3 in human relations, and 3 in applied psychology. In the upper-division baccalaureate category, 3 semester hours in public relations (6/78).

MOS-71M-004

CHAPLAIN ASSISTANT

71M10
71M20
71M30
71M40
71M50

Exhibit Dates: 6/90-Present.

Career Management Field: 71 (Administration)

Description

Summary: Acts as administrative assistant to a military chaplain; performs or supervises office activities such as preparing correspondence and maintaining records; assists the chaplain in preparing for chapel and religious programs; comparable to a civilian hospital chaplain's assistant or administrative assistant in a church or synagogue. *Skill Level 10:* Prepares facility for services; prepares schedules and religious materials; operates and maintains audiovisual equipment; acts as receptionist; answers routine inquiries; requisitions, receives, and maintains equipment and supplies; types letters, messages, forms, and records; maintains files. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; assists in planning and programming religious services and education. *Skill Level 30:* Able to perform the duties required for Skill Level 20; may provide supervision of five to eight persons; participates in preparation of budget; maintains fund records, including disbursements, receipts, and petty cash. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises subordinates; coordinates volunteer, part time, and other personnel; reviews prepared correspondence and reports; participates in planning and programming religious activities. *Skill Level 50:* Able to perform the duties required for Skill Level 40; performs supervisory and management duties in large installation.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in business communication, 2 in communication skills, and 1 in office administration. (NOTE: This recommendation for skill level 10 is valid for the dates 6/90-9/91 only) (6/90).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in business communication, 3 in communication skills, 2 in office administration, and 2 in human relations. (NOTE: This recommendation for skill level 20 is valid for the dates 6/90-2/95 only) (6/90).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in business communication, 3 in communication skills, 2 in office administration, 3 in human relations, 1 in

technical writing, 2 in principles of supervision, and 2 in budget administration. In the upper-division baccalaureate category, 1 semester hour in counseling services and 2 in crisis intervention (6/90).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in business communication, 3 in communication skills, 2 in office administration, 3 in human relations, 1 in technical writing, 3 in principles of supervision, and 2 in budget administration. In the upper-division baccalaureate category, 1 semester hour in counseling services and 2 in crisis intervention (6/90).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in business communication, 3 in communication skills, 3 in office administration, 3 in human relations, 1 in technical writing, 3 in principles of supervision, and 2 in budget administration. In the upper-division baccalaureate category, 1 semester hour in counseling services, 2 in crisis intervention, and 3 in applied psychology (6/90).

MOS-72E-003

COMBAT TELECOMMUNICATIONS CENTER OPERATOR

72E10

72E20

72E30

72E40

Exhibit Dates: 1/90-3/91. Effective 3/91, MOS 72E was discontinued, and its duties were incorporated into MOS 74C, Record Telecommunications Center Operator.

Career Management Field: 31 (Communications-Electronics Operations).

Description

Summary: Operates, monitors, and supervises record telecommunications equipment or assemblies. **Skill Level 10:** Processes and delivers messages; performs related clerical and administrative functions within combat telecommunications centers; prepares messages in proper format; reproduces and distributes messages; operates on-line and off-line cryptographic equipment using appropriate systems and materials; installs, operates, and performs routine maintenance on telecommunications equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; processes messages; supervises and performs administrative functions in combat telecommunications centers; maintains files necessary for adequate accounting and control of cryptographic material; coordinates handling of messages in combat telecommunications centers. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises the operation of combat telecommunications centers and remote terminals; establishes and supervises on-the-job training; evaluates capabilities of subordinates; reviews control and accounting procedures for cryptographic material and recommends improvements. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises the overall operation of combat telecommunications centers; coordinates training and technical operations of center; evaluates capabilities of subordinates; makes work assignments; coordinates efforts with other units.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing and 3 in office procedures (2/84).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office procedures, and 3 in office management (2/84).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office procedures, 3 in office management, and 3 in personnel supervision (2/84).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office procedures, 3 in office management, 3 in personnel supervision, and 3 in principles of management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (2/84).

MOS-72G-003

AUTOMATIC DATA TELECOMMUNICATIONS CENTER

OPERATOR

72G10

72G20

72G30

72G40

Exhibit Dates: 1/90-3/91. Effective 3/91, MOS 72G was discontinued, and its duties were incorporated into MOS 74C, Record Telecommunications Center Operator.

Career Management Field: 31 (Communications-Electronics Operations).

Description

Summary: Supervises, operates, and monitors data communications equipment and peripheral devices in automatic switching center. **Skill Level 10:** Operates data communications equipment; processes and transmits messages through automatic digital networks; prepares messages for transmission in paper tape, magnetic tape, and disk form; operates card readers, card punches, magnetic tape transports, magnetic tape stations, high speed printers, and teletypewriters. **Skill Level 20:** Able to perform the duties required for Skill Level 10; operates digital computers to receive, process, store, and forward data communications; assigns computer and peripheral equipment for on-line processing; prepares messages for encoding; maintains files; operates off-line message processor and teletypewriters; prepares station message-handling efficiency statistics. **Skill Level 30:** Able to perform the duties required for Skill Level 20; serves as shift supervisor; ensures message protection and efficiency of high speed traffic channels; employs automatic digital message switching start-up and restoring procedures; takes appropriate action to correct equipment malfunction, data discrepancies, or circuitry failure; prepares logs of equipment status and significant events. **Skill Level 40:** Able to perform the duties required for Skill Level 30; serves as data communications supervisor; supervises switching center operations, including console, traffic service operations, programming, and technical control; facilitates routing traffic by coordination with various organizations and other stations; corrects discrepancies and faulty work

practices; prepares, conducts, and supervises on-the-job training and evaluates personnel; prepares and submits technical reports including technical information on cryptographic operations.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing procedures (2/84).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing procedures and 3 in introduction to telecommunications networks (2/84).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing procedures, 3 in introduction to telecommunications networks, 3 in personnel supervision, and 3 in technical report writing (2/84).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing procedures, 3 in introduction to telecommunications networks, 3 in personnel supervision, 3 in technical report writing, and 3 in principles of management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (2/84).

MOS-73C-002

FINANCE SPECIALIST

73C10

73C20

73C30

73C40

Exhibit Dates: 1/90-9/91.

Career Management Field: 71 (Administration), subfield 713 (Finance).

Description

Summary: Completes forms, verifies data, computes amounts, and prepares reports of activity pertaining to pay, leave, travel, and personal finance records of military personnel. **Skill Level 10:** Determines pay entitlements, prepares input, and verifies leave and earnings; prepares pay vouchers; verifies, corrects, and maintains files of personnel financial records; operates calculator and other office equipment; answers inquiries from service members. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; computes, reviews, verifies, and corrects items related to travel reports and allowances; disburses, collects, and prepares reconciliation reports; performs quality assurance audits and special reviews and reports findings. **Skill Level 30:** Able to perform the duties required for Skill Level 20; may supervise from 4-18 persons; prepares reports. **Skill Level 40:** Able to perform the duties required for Skill Level 30; may supervise from 3-24 persons in a large finance organization.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in business mathematics, 2 in office procedures, and 2 in office machines (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour in business mathematics, 2 in office machines, and 3 in office procedures (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 1 semester hour in business mathematics, 2 in office machines, 3 in office procedures, 2 in office management, and credit in human relations on the basis of institutional evaluation (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 1 semester hour in business mathematics, 2 in office machines, 2 in business communications, 3 in office procedures, 3 in office management, and credit in human relations and personnel supervision on the basis of institutional evaluation (6/78).

MOS-73C-003**FINANCE SPECIALIST**

73C10
73C20
73C30
73C40

Exhibit Dates: 10/91–Present.

Career Management Field: 71 (Administration).

Description

Summary: Completes forms, verifies data, computes amounts, and prepares reports of activity pertaining to pay, leave, travel, and finance records of military personnel. *Skill Level 10:* Determines pay entitlements, prepares input, and verifies leave and earnings; prepares pay vouchers; verifies, corrects, and maintains files of personnel financial records; operates calculator, computer terminal, and other office equipment; answers inquiries from service members. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; computes, reviews, verifies, and corrects items related to travel reports and allowances; disburses, collects, and prepares reconciliation reports; performs quality assurance audits and special reviews and reports findings. *Skill Level 30:* Able to perform the duties required for Skill Level 20; may supervise from 4-18 subordinates; prepares reports; maintains cash book. *Skill Level 40:* Able to perform the duties required for Skill Level 30; safeguards public funds and related documents; compiles daily activity summary reports; may supervise from 3-24 persons in a large finance organization.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in business mathematics, 3 in office procedures, 2 in office machines, 1 in computer applications, and 1 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 10/91-2/95 only) (11/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in business mathematics, 3 in office procedures, 2 in office machines, 1 in computer applications, 2 in

office administration, and 3 in personnel supervision (11/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in business mathematics, 3 in office procedures, 2 in office machines, 1 in computer applications, 3 in office administration, 3 in personnel supervision, and 2 in business communications. In the upper-division baccalaureate category, 3 semester hours in human relations in business (11/91).

MOS-73D-002**ACCOUNTING SPECIALIST**

73D10
73D20
73D30
73D40

Exhibit Dates: 1/90–9/91.

Career Management Field: 71 (Administration), subfield 713 (Finance).

Description

Summary: Records, verifies, and reconciles data in accordance with Army accounting procedures. *Skill Level 10:* Records and verifies data; prepares error correction documents and reports; maintains files; operates calculator and other office equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; prepares expense reconciliations; interprets budget guidelines from higher headquarters and develops cost factors; develops activity budget submissions, reports, estimates, and analyses; conducts audit of accounting records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and instructs subordinates; may supervise 4-14 persons; plans and coordinates accounting operations; reviews reports for completeness and accuracy. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises more than 15 persons; supervises operations in a large accounting activity.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in office procedures, 1 in business mathematics, and 2 in office machines (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 2 in office machines, 2 in business mathematics, 2 in record keeping, and 1 in accounting (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 2 in office machines, 2 in business mathematics, 3 in record keeping, 1 in accounting, 2 in office management, and credit in human relations on the basis of institutional evaluation (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 2 in office machines, 2 in business mathematics, 3 in record keeping, 2 in accounting, 3 in office management, 3 in management principles, and credit in human relations and personnel supervision on the basis of institutional evaluation (6/78).

MOS-73D-003**ACCOUNTING SPECIALIST**

73D10
73D20
73D30
73D40

Exhibit Dates: 10/91–Present.

Career Management Field: 71 (Administration).

Description

Summary: Records, verifies, and reconciles data in accordance with Army accounting procedures. *Skill Level 10:* Records and verifies data; prepares error correction documents and reports; maintains files; operates computer terminal and other office equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; prepares expense reconciliations; interprets budget guidelines from higher headquarters and develops cost factors; develops activity budget submissions, reports, estimates, and analyses; conducts audit of accounting records; supervises one to five persons. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and instructs subordinates; may supervise 4-14 persons; plans and coordinates accounting operations; reviews reports for completeness and accuracy; prepares adjustments to the general ledger. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises more than 15 persons in a large accounting activity.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 2 in business mathematics, 2 in office machines, 1 in computer applications, 2 in government accounting, and 2 in record keeping. (NOTE: This recommendation for skill level 20 is valid for the dates 10/91-2/95 only) (11/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 2 in business mathematics, 2 in office machines, 1 in computer applications, 2 in government accounting, 2 in record keeping, 2 in office administration, and 3 in personnel supervision (11/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 2 in business mathematics, 2 in office machines, 1 in computer applications, 2 in government accounting, 3 in record keeping, 3 in office administration, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hour in human relations in business (11/91).

MOS-73Z-001**FINANCE SENIOR SERGEANT**

73Z50

Exhibit Dates: 1/90–9/91.

Career Management Field: 71 (Administration), subfield 713 (Finance).

Description

Able to perform the duties required for skill level 30 of MOS 73C (Finance Specialist) and 73D (Accounting Specialist); supervises or performs finance operations, accounting operations, or comptroller functions at military installations, agencies, or commands; supervises and reviews payroll accounting procedures and records, travel disbursements, and internal review and budget functions; performs staff functions such as research and preparation of financial accounting statements and statistical reports; as a finance operations chief at pay grade E-8, supervises a minimum of 25 persons; as a finance operations chief at pay grade E-9, supervises a minimum of 60 persons. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), or 71S (Attache Specialist).

Recommendation

In the vocational certificate category, 3 semester hours in payroll accounting, 1 in filing, and additional credit as follows: if the duty assignment was division chief at paygrade E-8, 2 semester hours in budgeting and systems; if the duty assignment was finance operations chief at paygrade E-8, 3 semester hours in budgeting and systems; if the duty assignment was finance operations chief at paygrade E-9, 4 semester hours in budgeting and systems. In the lower-division baccalaureate/associate degree category, 6 semester hours for field experience in accounting, 3 in business communications, and additional credit as follows: if the duty assignment was division chief at paygrade E-8, 4 semester hours in personnel supervision and 4 in office management; if the duty assignment was finance operations chief at paygrade E-8, 5 semester hours in personnel supervision, 5 in office management, and 1 in accounting systems; if the duty assignment was finance operations chief at paygrade E-9, 6 semester hours in personnel supervision, 6 in office management, and 2 in accounting systems. In the upper-division baccalaureate category, 3 semester hours in introduction to management, and additional credit as follows: if the duty assignment was either division chief at paygrade E-8 or finance operations chief at paygrade E-8, 3 semester hours for field experience in management; if the duty assignment was finance operation chief at paygrade E-9, 6 semester hours for field experience in management (11/75).

MOS-73Z-002

FINANCE SENIOR SERGEANT
73Z50

Exhibit Dates: 10/91–Present.

Career Management Field: 71 (Administration).

Description

Able to perform the duties required for skill level 40 of MOS 73C (Finance Specialist) and 73D (Accounting Specialist); supervises or performs finance operations, accounting operations, or comptroller functions at military installations, agencies, or commands; supervises and reviews payroll accounting procedures and records, travel disbursements, and internal review and budget functions; performs staff functions such as research and preparation of financial accounting statements and statistical reports; may supervise from 25 to over 60 persons. NOTE: May have progressed from

73C40 (Finance Specialist) or 73D40 (Accounting Specialist).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in government accounting, 3 for field experience in accounting, 3 in business communication, 3 in personnel supervision, and 3 in office management. In the upper-division baccalaureate category, 3 semester hours in principles of management, 3 for field experience in management, 3 in management problems, and 3 in organizational management (11/91).

MOS-74B-001

INFORMATION SYSTEMS OPERATOR-ANALYST
74B10
74B20
74B30
74B40

Exhibit Dates: Pending Evaluation. 2/95–Present.

MOS-74C-001

RECORD TELECOMMUNICATIONS OPERATOR
(Record Telecommunications Center Operator)
74C10
74C20
74C30
74C40

Exhibit Dates: 11/90–Present.

Career Management Field: 74 (Record Information Operations).

Description

Summary: Supervises, installs, operates, and performs unit maintenance on manual and automated telecommunications equipment that may link mainframes, minicomputers and microcomputers to networks; various protocols and topologies, including local area networks and wide area networks are used. **Skill Level 10:** Installs, operates, and maintains telecommunications and automated message switching equipment; performs network troubleshooting and problem diagnosis; performs tests to check signal flow and linkage to other installations; maintains records of message activity. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises assigned personnel in performing above operations; provides technical leadership to subordinates and conducts ongoing training; serves as shift leader of a facility; performs system problem diagnosis at a higher level of difficulty; utilizes data analyzers and other devices to determine system faults. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises a telecommunications center; coordinates with other sites to determine system faults and plan corrective action. **Skill Level 40:** Able to perform the duties required for Skill Level 30; plans, directs, and coordinates the installation of tactical telecommunications switching centers; prepares reports, studies, and evaluation of unit activities; directs and supervises training programs to ensure efficiency, successful implementation of changes, and career growth for subordinates.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in principles of data communica-

tions, and 3 in introduction to computers and computing. (NOTE: This recommendation for skill level 10 is valid for the dates 11/90-9/91 only) (10/92).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in principles of data communications, 3 in introduction to computers and computing, 3 in advanced data communications, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 11/90-2/95 only) (10/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in principles of data communications, 3 in introduction to computers and computing, 3 in advanced data communications, 3 in personnel supervision, and 2 in records and information management (10/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in principles of data communications, 3 in introduction to computers and computing, 3 in advanced data communications, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (10/92).

MOS-74D-003

COMPUTER/MACHINE OPERATOR
74D10
74D20
74D30
74D40

Exhibit Dates: 1/90–9/92.

Career Management Field: 74 (Automatic Data Processing), subfield 741 (Data Processing Equipment Operations).

Description

Summary: Operates electronic computer console and auxiliary equipment. **Skill Level 10:** Performs computer console support activities; mounts magnetic disk and tape; operates line printers; keeps a magnetic tape library. **Skill Level 20:** Able to perform the duties required for Skill Level 10; operates a computer system consisting of a central processing unit, magnetic tape units and/or disk storage units in a non-multiprogramming or non-multiprocessing environment. **Skill Level 30:** Able to perform the duties required for Skill Level 20; operates a computer system in multiprogramming and multiprocessing environment; operates a computer system which has remote-inquiry stations and a program-interrupt capability. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises computer system and auxiliary equipment operator personnel; prepares production schedules.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in file organization and processing, and 2 in computer system operations. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/81).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in file organization and processing, and 3 in computer system operations (9/81).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 5 semester hours in computer system operations, 3 in introduction to data processing, and 3 in file organization and processing. In the upper-division baccalaureate category, 2 semester hours in computer operating systems and 1 in introduction to systems analysis and design (9/81).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 5 semester hours in computer system operations, 3 in introduction to data processing, and 3 in file organization and processing. In the upper-division baccalaureate category, 3 semester hours in operations management, 3 in personnel supervision, 2 in computer operating systems, and 1 in introduction to systems analysis and design (9/81).

MOS-74D-004**INFORMATION SYSTEMS OPERATOR**

74D10
74D20
74D30
74D40

Exhibit Dates: 10/92–6/95. Effective 6/95, MOS 74D was discontinued, and its duties were incorporated into MOS 74B.

Career Management Field: 74 (Record Information Operations).

Description

Summary: Supervises, installs, operates, and performs unit level maintenance on multifunction/multiuser information processing systems, peripheral equipment, and associated devices in mobile and fixed facilities. **Skill Level 10:** Performs computer console supporting activities; mounts tapes; operates line printers; maintains magnetic tape library; resolves problems encountered in running computer jobs. **Skill Level 20:** Able to perform the duties required for Skill Level 10; employs Job Control Language to ensure the successful completion of computer job and the conversion of storage from disk to tape or vice versa. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises the deployment, installation, operation, and unit maintenance of information processing systems, including comparative operating systems such as VSE, MVS, and VM; works with users to ensure successful completion of computer jobs. **Skill Level 40:** Able to perform the duties required for Skill Level 30; responsible for computer operations across all shifts at a site; incorporates planning for local area network installation and operation and the integration of microcomputers into the computer network; interacts with other areas of the facility outside computer operations as necessary to plan installation and resolve problems.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduc-

tion to computers and computing, 3 in introduction to computer operations, 3 in advanced computer operations, 3 in Job Control Language and utilities, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 11/90–2/95 only) (10/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to computers and computing, 3 in introduction to computer operations, 3 in advanced computer operations, 3 in Job Control Language and utilities, 3 in personnel supervision, and 2 in records and information management (10/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to computers and computing, 3 in introduction to computer operations, 3 in advanced computer operations, 3 in Job Control Language and utilities, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (10/92).

MOS-74F-003**PROGRAMMER/ANALYST**

74F10
74F20
74F30
74F40

Exhibit Dates: 1/90–9/92.

Career Management Field: 74 (Automatic Data Processing), subfield 741 (Data Processing Equipment Operations).

Description

Summary: Analyzes, writes, tests, and implements computer programs and/or conducts data system studies involving investigations, evaluation, development, and implementation of new or modified data processing systems for an application area. **Skill Level 10:** Assists in the preparation, editing, testing, and implementation of computer programs; prepares and analyzes program and system flow charts; prepares program documentation; reviews and revises computer programs; writes simple Assembler and COBOL programs, as well as programs in other universal languages, such as FORTRAN, RPG, and BASIC. **Skill Level 20:** Able to perform the duties required for Skill Level 10; analyzes, writes, edits, tests, and implements computer programs; sorts, merges, and processes runs; writes detailed program specifications for minor problems; may supervise computer programming activities. NOTE: May have progressed to 74F20 from 74B10 (Card and Tape Writer) or 74D10 (Computer/Machine Operator). **Skill Level 30:** Able to perform the duties required for Skill Level 20; applies advanced programming techniques; produces computer operations documentation; performs or assists in supervising programming and system studies in personnel, intelligence, transportation, supply, maintenance, medical, finance, and data communications areas; develops procedures to produce flow charts, block diagrams, and detailed instructions, routines, and codes for data processing application. NOTE: May have progressed to 74F30 from 74F20, 74B20

(Card and Tape Writer), or 74D20 (Computer/Machine Operator). **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises systems analysis and programming activities; supervises, advises, guides, and evaluates programmers and systems analysts.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in Assembler language programming, 3 in ANSI COBOL programming, and additional credit in other programming languages on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in systems analysis and design. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90–9/91 only) (9/81).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in computer file organization, 3 in Assembler language programming, 3 in ANSI COBOL programming, and additional credit in other programming languages on the basis of institutional evaluation. In the upper-division baccalaureate category, 4 semester hours in systems analysis and design (9/81).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in computer file organization, 3 in computer operating systems, 3 in Assembler language programming, 3 in ANSI COBOL programming, and additional credit in other programming languages on the basis of institutional evaluation. In the upper-division baccalaureate category, 8 semester hours in systems analysis and design and 3 in advanced programming techniques (9/81).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in computer file organization, 3 in computer operating systems, 3 in Assembler language programming, 3 in ANSI COBOL programming, and additional credit in personnel supervision and other programming languages on the basis of institutional evaluation. In the upper-division baccalaureate category, 8 semester hours in systems analysis and design, 3 in system and programming management, 3 in advanced programming techniques, 3 in human relations, and 3 for field experience in management (9/81).

MOS-74F-004**SOFTWARE/ANALYST**

74F10
74F20
74F30
74F40

Exhibit Dates: 10/92–6/95. Effective 6/95, MOS 74F was discontinued, and its duties were incorporated into MOS 74B.

Career Management Field: 74 (Record Information Operations).

Description

Summary: Develops charts, diagrams and specifications; prepares and processes test data; writes computer programs; tests and integrates programs into systems that meet functional

needs of users. *Skill Level 10:* Converts program specifications into executable code; tests code and integrates modules into programs; programming languages may include Ada, COBOL and CICS; Job Control Language is prepared for computer operations production of the system. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and assistance to subordinates; assists in on-the-job training; establishes utility routines to be integrated into production job streams; may serve as project leader for small projects; plans and supervises conversion of programs from one language into another. *Skill Level 30:* Able to perform the duties required for Skill Level 20; develops skills in using data base management systems and various query processes including SQL; prepares and plans the turnover of production jobs to computer operations. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a site; works with users requesting services; prepares reports on the status of projects; ensures compliance with directives, policies, and organizational standards of design and programming.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to computers and computing, 3 in Ada programming language, 3 in COBOL programming language I, 3 in COBOL programming language II, 3 in systems analysis and design, 3 in Job Control Language and utilities, 3 in documentation/technical writing, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 10/92-2/95 only) (10/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to computers and computing, 3 in Ada programming language, 3 in COBOL programming language I, 3 in COBOL programming language II, 3 in systems analysis and design, 3 in Job Control Language and utilities, 3 in documentation/technical writing, 3 in data base management systems, 3 in personnel supervision, and 2 in records and information management (10/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to computers and computing, 3 in Ada programming language, 3 in COBOL programming language I, 3 in COBOL programming language II, 3 in systems analysis and design, 3 in Job Control Language and utilities, 3 in documentation/technical writing, 3 in data base management systems, 3 in personnel supervision, 2 in records and information management, and 3 in local networking and connectivity. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (10/92).

MOS-74G-001

TELECOMMUNICATIONS COMPUTER OPERATOR-
MAINTAINER
74G10
74G20
74G30
74G40

Exhibit Dates: Pending Evaluation. 2/95-Present.

MOS-74Z-001

DATA PROCESSING NCO
74Z50

Exhibit Dates: 1/90-9/92.

Career Management Field: 74 (Automatic Data Processing), subfield 741 (Data Processing Equipment Operations).

Description

Supervises a data processing installation, including systems analysts, computer programmers, computer operators, and related support groups; delegates tasks to subordinates and manages their activities; maintains a current knowledge of accepted systems and programming standards, personnel procedures, and office operation techniques; knows the basic principles of systems analysis, computer hardware, and unit-record equipment; possesses an overall understanding of computer programming. NOTE: May have detailed knowledge in one or more of the following areas: computer operations, computer equipment maintenance, computer programming, and systems analysis, through previous MOS experience in the automatic data processing career management field (74).

Recommendation

In the vocational certificate category, 3 semester hours in unit record data processing and 2 in computer operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing principles and 1 in computer programming. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in office management, 3 in personnel management, and 2 in business systems analysis (12/75).

MOS-74Z-002

INFORMATION SYSTEMS CHIEF
(Record Information Systems Chief)
74Z50

Exhibit Dates: 10/92-Present.

Career Management Field: 74 (Record Information Operations).

Description

Supervises a data processing installation, including systems analysts, computer programmers, computer operators, and related support groups; delegates tasks to subordinates and manages their activities; maintains a current knowledge of accepted systems and programming standards, personnel procedures, and office operation techniques; knows the principles of systems analysis, computer hardware, telecommunications, and message switching; possesses an overall understanding of computer programming. NOTE: May have detailed knowledge in one or more of the above areas based on previous MOS experience in the record information operations career manage-

ment field (74). May have progressed to 74Z50 from 74C40. Record Telecommunications Center Operator; 74D40, Information Systems Operator; or 74F40, Software Analyst.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management, 3 for field experience in management, and 3 in data processing management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (10/92).

MOS-75B-003

PERSONNEL ADMINISTRATION SPECIALIST
75B10
75B20
75B30

Exhibit Dates: 1/90-3/94.

Career Management Field: 71 (Administration), subfield 712 (Personnel).

Description

Summary: Performs clerical and administrative functions regarding general personnel matters. *Skill Level 10:* Types and completes forms and records; prepares, reviews, and processes specific personnel reports; maintains files; answers telephone; serves as receptionist; receives and dispatches mail; provides input data for computer system. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical assistance to subordinates; composes correspondence. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns work to subordinates; counsels staff and clients on personnel matters; reviews and compiles data for reports and personnel actions; evaluates work of assigned staff.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in typing and 1 in office procedures. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (3/84).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office procedures, and 1 in business communications (3/84).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office procedures, 3 in business communications, 3 for a practicum in office procedures, 3 in personnel supervision, and 2 in office management (3/84).

MOS-75B-004

PERSONNEL ADMINISTRATIVE SPECIALIST
75B10
75B20
75B30

Exhibit Dates: 4/94-Present.

Career Management Field: 71 (Administration).

Description

Summary: Performs clerical and administrative support for general personnel matters. *Skill Level 10:* Prepares correspondence and orders and completes forms and records using word processing and other software; maintains files; answers telephone; interviews personnel; provides input for computer system. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and training to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; prepares correspondence and reports; evaluates and counsels subordinates; supervises maintenance of files; prioritizes, organizes, and assigns work; prepares training programs.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (4/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in word processing, 3 in office procedures, 2 in record keeping, and 3 for field experience in personnel procedures. (NOTE: This recommendation for skill level 20 is valid for the dates 4/94-2/95 only) (4/94).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in word processing, 3 in business communications, 3 in office procedures, 3 in record keeping, 3 for field experience in personnel procedures, 3 in personnel supervision, and 3 in office administration (4/94).

MOS-75C-003

PERSONNEL MANAGEMENT SPECIALIST
75C10
75C20
75C30

Exhibit Dates: 1/90-3/94.

Career Management Field: 71 (Administration), subfield 712 (Personnel).

Description

Summary: Participates in the occupational classification of personnel. *Skill Level 10:* Compares personnel records with classification standards to recommend assignment of individuals; types forms and correspondence; may interview personnel; provides input for computer system; maintains files. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical assistance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; coordinates and makes work assignments; supervises and evaluates performance of staff; organizes training programs; provides counseling on personnel matters.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in office procedures and 2 in typing. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (3/84).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in typing, and 1 in business communications (3/84).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in typing, 1 in business communications, 3 for a practicum in office procedures, 2 in office management, 2 in human relations, and 3 in personnel supervision (3/84).

MOS-75C-004

PERSONNEL MANAGEMENT SPECIALIST
75C10
75C20
75C30

Exhibit Dates: 4/94-Present.

Career Management Field: 71 (Administration).

Description

Summary: Participates in occupational classification and management of manpower resources or supervises personnel management activities. *Skill Level 10:* Prepares correspondence and orders and completes forms and records using word processing and other software; maintains files; answers telephone; interviews personnel; provides input for computer system. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and training to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; prepares correspondence and reports; evaluates and counsels subordinates; supervises maintenance of files; prioritizes, organizes, and assigns work; prepares training programs.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (4/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in word processing, 3 in office procedures, 2 in record keeping, and 3 for field experience in personnel procedures. (NOTE: This recommendation for skill level 20 is valid for the dates 4/94-2/95 only) (4/94).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in word processing, 3 in business communications, 3 in office procedures, 3 in record keeping, 3 for field experience in personnel procedures, 3 in personnel supervision, and 3 in office administration (4/94).

MOS-75D-003

PERSONNEL RECORDS SPECIALIST
75D10
75D20
75D30

Exhibit Dates: 1/90-3/94.

Career Management Field: 71 (Administration), subfield 712 (Personnel).

Description

Summary: Maintains military personnel records or supervises records maintenance. *Skill Level 10:* Types correspondence, memorandums, and forms; prepares computer input data for personnel records; maintains files; posts regulation changes; prepares and verifies a variety of personnel records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical assistance to subordinates;

drafts correspondence and reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; determines personnel requirements, assigns duties and organizes work schedules, prepares and conducts training; evaluates and counsels personnel; monitors and audits personnel records; reviews computer system input and reconciles with output.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in office procedures, 2 in typing, and 2 in filing or records management. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (3/84).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in typing, 2 in filing or records management, and 2 in business communication or technical writing (3/84).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in typing, 2 in filing or records management, 3 in business communication or technical writing, 2 in office management, 3 in personnel supervision, and 3 for a practicum in office procedures (3/84).

MOS-75D-004

PERSONNEL RECORDS SPECIALIST
75D10
75D20
75D30

Exhibit Dates: 4/94-Present.

Career Management Field: 71 (Administration).

Description

Summary: Prepares and maintains personnel records or supervises records preparation and maintenance. *Skill Level 10:* Prepares correspondence forms and records using word processing software; maintains files; prepares and verifies a variety of personnel records; and provides computer data input. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; prepares reports, correspondence, and recommendations; evaluates and counsels subordinates; prepares and conducts training; establishes work priorities.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (4/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in word processing, 3 in office procedures, 3 in record keeping, and 3 for field experience in personnel procedures. (NOTE: This recommendation for skill level 20 is valid for the dates 4/94-2/95 only) (4/94).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in word processing, 3 in office procedures, 3 in technical writing, 3 in record keeping, 3 for field experience in personnel procedures, 3 in personnel supervision, and 3 in office administration (4/94).

MOS-75E-003

PERSONNEL ACTIONS SPECIALIST

75E10

75E20

75E30

Exhibit Dates: 1/90-3/94.**Career Management Field:** 71 (Administration), subfield 712 (Personnel).**Description**

Summary: Processes personnel actions concerning service members and their dependents. **Skill Level 10:** Completes forms required for training schools, awards and decorations, release, transfer, reenlistment, retirement, and casualties; provides information on veterans', social security, and retirement benefits; types forms, correspondence, and messages; verifies information; prepares computer input data; handles telephone calls; maintains and updates files. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical assistance to subordinates. **Skill Level 30:** Able to perform the duties required for Skill Level 20; determines personnel requirements, work priorities, duty assignments, and work schedules; prepares and conducts training programs; prepares administrative, technical, and personnel reports; advises and counsels individuals on personnel matters; supervises personnel action activities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in typing and 2 in office procedures. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (3/84).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office procedures, and 2 in business communication (3/84).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office procedures, 3 in business communications, 3 for a practicum in office procedures, and 3 in personnel supervision (3/84).

MOS-75E-004

PERSONNEL ACTIONS SPECIALIST

75E10

75E20

75E30

Exhibit Dates: 4/94-Present.**Career Management Field:** 71 (Administration).**Description**

Summary: Performs personnel actions concerning service members and their dependents or supervises personnel actions activities. **Skill Level 10:** Prepares correspondence and completes forms and records using word processing software; maintains and updates files; answers telephone; verifies information; and provides computer data input. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance and training to subordinates. **Skill Level 30:** Able to perform the duties required for Skill Level 20; prepares correspondence and recommendations; evaluates and counsels subordinates.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (4/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in word processing, 3 in office procedures, 2 in record keeping, 2 in business communication, and 3 for field experience in office procedures. (NOTE: This recommendation for skill level 20 is valid for the dates 4/94-2/95 only) (4/94).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in word processing, 3 in office procedures, 3 in business communication, 3 in record keeping, 3 for field experience in office procedures, 3 in office administration, and 3 in personnel supervision (4/94).

MOS-75F-001

PERSONNEL INFORMATION SYSTEM MANAGEMENT

SPECIALIST

75F10

75F20

75F30

Exhibit Dates: 1/90-3/94.**Career Management Field:** 71 (Administration), subfield 712 (Personnel).**Description**

Summary: Operates and manages personnel information systems and assists or supervises users of systems. **Skill Level 10:** Analyzes, processes, distributes, and maintains personnel files; reviews input data for accuracy and prepares system documents; operates keypunch machines, optical scan equipment, and other data reduction devices, such as IBM 129, DATA 200, and computer components; monitors accuracy of personnel files and makes corrections as necessary; performs automated interface procedures with other automated systems; types entries onto forms and records; maintains files within the Army Functional Files System. **Skill Level 20:** Able to perform the duties required for Skill Level 10; operates personnel information systems and trains system users; provides technical assistance to subordinates; controls incoming/outgoing automatic data information transmissions; prepares output distribution plan; visits system users, and gives assistance or formal instruction as needed. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises personnel information systems, assigns duties, organizes work schedules, and ensures work completion; determines training needs of subordinates and conducts training programs; reviews reports to assess system performance; develops production schedules; maintains liaison with managers of interfaced systems; establishes and maintains office procedures; prepares administrative and technical reports; counsels subordinates and prepares evaluation reports; may supervise four to nine personnel; establishes stock level of needed supplies and blank forms.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in computer systems operations and 2 in data processing. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (3/84).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in computer system operations, 3 in data processing, 2 in computer file organization, and 1 in office procedures (3/84).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer system operations, 3 in data processing, 2 in office procedures, 2 in personnel supervision, and 2 in computer file organization (3/84).

MOS-75F-002

PERSONNEL INFORMATION SYSTEM MANAGEMENT

SPECIALIST

75F10

75F20

75F30

Exhibit Dates: 4/94-2/95.**Career Management Field:** 71 (Administration).**Description**

Summary: Operates and manages personnel information systems, trains and assists system users, or supervises systems activities. **Skill Level 10:** Prepares correspondence and completes forms and records using word processing software; maintains and updates files; answers telephone; verifies information; provides computer data input. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance and training to subordinates; identifies training needs of system users; maintains system; prepares and maintains output distribution scheme. **Skill Level 30:** Able to perform the duties required for Skill Level 20; prepares correspondence and recommendations; supervises, evaluates, and counsels subordinates; establishes work priorities; assigns and instructs subordinates in duties and procedures; maintains liaison with servicing facility and interface systems; prepares and reviews reports.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (4/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding, 2 in office procedures, 2 in computer operations, and 3 for field experience in personnel procedures (4/94).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding, 3 in office procedures, 3 in business communication, 3 in computer operations, 3 for field experience in personnel procedures, 3 in office administration, and 3 in personnel supervision (4/94).

MOS-75F-003

PERSONNEL INFORMATION SYSTEM MANAGEMENT

SPECIALIST

75F10

75F20

75F30

Exhibit Dates: 3/95-Present.**Career Management Field:** 71 (Administration).

Description

Summary: Operates and manages personnel information systems; trains and assists system users; or supervises systems activities. *Skill Level 10:* Prepares correspondence and completes forms and records using word processing software; maintains and updates files; answers telephone; verifies information; provides computer data input. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and training to subordinates; identifies training needs of system users; maintains system; prepares and maintains output distribution scheme. *Skill Level 30:* Able to perform the duties required for Skill Level 20; prepares correspondence and recommendations; supervises, evaluates, and counsels subordinates; establishes work priorities; assigns and instructs subordinates in duties and procedures; maintains liaison with servicing facility and interface systems; prepares and reviews reports.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (4/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (4/94).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding, 2 in office procedures, 3 in business communication, 2 in computer operations, 3 for field experience in personnel procedures, 3 in office administration, and 3 in personnel supervision (4/94).

MOS-75Z-003

PERSONNEL SERGEANT

75Z40

75Z50

Exhibit Dates: 1/90–3/94.

Career Management Field: 71 (Administration), subfield 712 (Personnel).

Description

Summary: Supervises the operation of a personnel office, including personnel administration, personnel management, personnel records, and information systems. *Skill Level 40:* Supervises performance of legal, reenlistment, and administrative matters as well as personnel actions; reviews, consolidates, and drafts reports and surveys; researches specific policies and procedures relating to officer and enlisted personnel administration; reviews data prepared for computer input and reconciles output; as a mid-level manager, advises superiors on personnel administrative activities; supervises up to 18 persons in a segment of a large personnel office or in a small or medium-sized personnel office. **NOTE:** May have progressed to 75Z40 from 75B30 (Personnel Administration Specialist), 75C30 (Personnel Management Specialist), 75D30 (Personnel Records Specialist), 75E30 (Personnel Actions Specialist), or 75F30 (Information System Management Specialist). *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises up to 39 persons in a large segment of a large personnel office or serves as the principal noncommissioned officer of a large personnel office; may also perform the duties of a First Sergeant.

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in computer concepts. In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in office management, 3 in business communication or technical writing, 3 in introduction to computer concepts, 3 in human relations, 3 in personnel supervision, and 3 in records management on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for field experience in management (3/84).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in computer concepts. In the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in office management, 3 in business communication or technical writing, 3 in introduction to computer concepts, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and 3 in records management on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management and 6 for field experience in management (3/84).

MOS-75Z-004

PERSONNEL SERGEANT

75Z40

75Z50

Exhibit Dates: 4/94–Present.

Career Management Field: 71 (Administration).

Description

Summary: Supervises the operation of a personnel office, including personnel administration, personnel management, personnel records, and information systems. *Skill Level 40:* Supervises performance of legal, reenlistment, and administrative matters as well as personnel actions; reviews, consolidates, and drafts reports and surveys; researches specific policies and procedures related to officer and enlisted personnel administration; reviews data prepared for computer input and reconciles output; as a mid-level manager, advises superiors on personnel administrative activities; supervises up to 18 persons in a segment of a large personnel office or in a small or medium-sized personnel office. **NOTE:** May have progressed to 75Z40 from 75B30 (Personnel Administration Specialist), 75C30 (Personnel Management Specialist), 75D30 (Personnel Records Specialist), 75E30 (Personnel Actions Specialist), or 75F30 (Information System Management Specialist). *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises up to 39 persons in a large segment of a large personnel office or serves as the principal noncommissioned officer of a large personnel office; may also perform the duties of a first sergeant.

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in office management, 3 in records management, 3 in computer applications, 3 in human relations, and 3 for field experience in management. In the upper-division baccalaureate category, 3 semester hours in human resource management and 3 in management problem solving (4/94).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in office management, 3 in records management, 3 in computer applications, 3 in human relations, and 3 for field experience in management. In the upper-division baccalaureate category, 3 semester hours in human resource management and 3 in management problems solving (4/94).

MOS-76C-001

EQUIPMENT RECORDS AND PARTS SPECIALIST

76C10

76C20

Exhibit Dates: 1/90–3/92.

Career Management Field: 76 (Supply and Service), subfield 761 (Supply).

Description

Summary: Maintains records for repair parts inventory, equipment use, and equipment maintenance. *Skill Level 10:* Obtains or prepares repair parts lists; locates information using catalog data and technical manuals; prepares repair parts requests; receives, stores, and issues repair parts; keeps inventory records of repair parts; prepares and maintains records on equipment usage, operation, and maintenance; initiates, receives, and maintains manual control records; may initiate, receive, and maintain automated maintenance control records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; obtains repair parts to meet equipment maintenance needs; assists in planning maintenance needs for the unit.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in record keeping and 2 in inventory control; if person worked with automated maintenance control records, 2 semester hours in computer operations. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/90–9/91 only) (9/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in record keeping and 2 in inventory control; if person worked with automated maintenance control records, 2 semester hours in computer operations (9/82).

MOS-76C-002

EQUIPMENT RECORDS AND PARTS SPECIALIST

76C10

76C20

Exhibit Dates: 4/92–6/93. Effective 6/93, MOS 76C was discontinued, and its duties were incorporated into MOS 92A, Automated Logistical Specialist.

Career Management Field: 76 (Supply and Services).

Description

Summary: Maintains records for repair parts inventory, equipment use, and equipment maintenance including hazardous material records. *Skill Level 10:* Obtains or prepares repair parts lists; locates information using catalog data and technical manuals; prepares repair parts requests; receives, stores, exchanges, and issues repair parts; keeps inventory records of repair parts including hazardous materials records;

prepares and maintains records on equipment usage, operation, maintenance, modification, and calibration; initiates, receives, and maintains manual control records; may initiate, receive, and maintain automated maintenance control records; records equipment readiness codes and maintenance data for computer applications. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and provides technical guidance to subordinates; obtains repair parts to meet equipment maintenance needs; assists in planning maintenance needs for the unit.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in record keeping, and 3 in personnel supervision (4/92).

MOS-76J-002

MEDICAL SUPPLYMAN

76J10
76J20
76J30
76J40
76J50

Exhibit Dates: 1/90-3/92.

Career Management Field: 76 (Supply and Services), subfield 761 (Supply).

Description

Summary: Supervises or performs requisitioning, receipt, inventory management, storage, preservation, stock control, and accounting of medical supplies and equipment. *Skill Level 10:* Transports and handles medical supplies and equipment; inventories and issues medical supplies; performs in-storage care and preservation; applies special procedures for handling, storage, packaging, and shipping pharmaceuticals, biologicals, blood fractions, and medicines; interprets medical terminology and vocabulary directly related to supply function; operates office machines; keeps administrative and medical supply files; assists in keeping records on equipment operation and maintenance. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; responsible for local purchasing. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises small medical supply, stock control, or storage activity; plans medical supply and equipment operations; assigns duties, plans work loads, and instructs personnel in work techniques and procedures; responsible for budgeting and managing funds; works with automated property book system. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises medium-sized medical supply, stock control, or storage activity. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises a large medical supply, stock control, or storage activity or serves as principal noncommissioned officer of medical depot; analyzes medical logistical management data.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 2 in office machines, 1 in medical terminology, 1 in filing, and credit in record keep-

ing and office management on the basis of institutional evaluation. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in office machines, 1 in medical terminology, 2 in office management, and 2 in filing (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in budgeting practices, 2 in inventory control, 2 in office machines, 2 in office procedures, 1 in medical terminology, 2 in filing, 3 in office management, 2 in computer concepts, and 3 in human relations (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in budgeting practices, 2 in inventory control, 2 in office machines, 2 in office procedures, 1 in medical terminology, 2 in filing, 3 in office management, 2 in computer concepts, and 3 in human relations. In the upper-division baccalaureate category, 3 semester hours for field experience in management (6/78).

Recommendation, Skill Level 50

In the vocational certificate category, 6 semester hours for field experience in management. In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in budgeting practices, 2 in inventory control, 2 in office machines, 2 in office procedures, 1 in medical terminology, 2 in filing, 3 in office management, 2 in computer concepts, and 3 in human relations. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel supervision; if served as principal noncommissioned officer, 3 semester hours in personnel management (6/78).

MOS-76J-003

MEDICAL SUPPLY SPECIALIST

76J10
76J20
76J30
76J40
76J50

Exhibit Dates: 4/92-2/95.

Career Management Field: 91 (Medical).

Description

Summary: Supervises or performs requisitioning, receipt, inventory management, storage, preservation, stock control and quality, parts repair, and accounting of medical supplies and equipment. *Skill Level 10:* Transports and handles medical supplies and equipment; inventories and issues medical supplies; performs in-storage care and preservation; applies special procedures for handling, storage, packaging, and shipping pharmaceuticals, biologicals, blood fractions, and medicines; interprets medical terminology and vocabulary directly related to supply function; operates office machines; keeps administrative and medical supply files; assists in keeping records on equipment operation and maintenance. *Skill Level 20:* Able to

perform the duties required for Skill Level 10; supervises and provides technical guidance to subordinates; responsible for local purchasing. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises small medical supply, stock control, or storage activity; plans medical supply and equipment operations; assigns duties, plans work loads, and instructs personnel in work techniques and procedures; responsible for budgeting and managing funds; works with automated property book system. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a medium-sized medical supply, stock control, or storage activity. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises a large medical supply, stock control, or storage activity or serves as principal noncommissioned officer of medical depot; analyzes medical logistical management data.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in supply management, 3 in warehouse operations, and 3 in personnel supervision (4/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in supply management, 4 in warehouse operations, 3 in personnel supervision, and 2 in records and information management (4/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in supply management, 5 in warehouse operations, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (4/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in supply management, 5 in warehouse operations, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management; if paygrade E-9 has been attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (4/92).

MOS-76J-004

MEDICAL SUPPLY SPECIALIST

76J10
76J20
76J30
76J40
76J50

Exhibit Dates: 3/95-Present.

Career Management Field: 91 (Medical).

Description

Summary: Supervises or performs requisitioning, receipt, inventory management, stor-

age, preservation, stock control and quality, parts repair, and accounting of medical supplies and equipment. *Skill Level 10:* Transports and handles medical supplies and equipment; inventories and issues medical supplies; performs in-storage care and preservation; applies special procedures for handling, storage, packaging, and shipping pharmaceuticals, biologicals, blood fractions, and medicines; interprets medical terminology and vocabulary directly related to supply function; operates office machines; keeps administrative and medical supply files; assists in keeping records on equipment operation and maintenance. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and provides technical guidance to subordinates; responsible for local purchasing. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises small medical supply, stock control, or storage activity; plans medical supply and equipment operations; assigns duties, plans work loads, and instructs personnel in work techniques and procedures; responsible for budgeting and managing funds; works with automated property book system. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a medium-sized medical supply, stock control, or storage activity. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises a large medical supply, stock control, or storage activity or serves as principal noncommissioned officer of medical depot; analyzes medical logistical management data.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (4/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in supply management, 3 in warehouse operations, 3 in personnel supervision, and 2 in records and information management (4/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in supply management, 4 in warehouse operations, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (4/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in supply management, 5 in warehouse operations, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management; if paygrade E-9 has been attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (4/92).

MOS-76P-002

MATERIEL CONTROL AND ACCOUNTING SPECIALIST

76P10
76P20
76P30
76P40

Exhibit Dates: 1/90-3/92.

Career Management Field: 76 (Supply and Service), subfield 761 (Supply).

Description

Summary: Performs or supervises inventory management functions and stock record keeping pertaining to receipt, distribution, and issue of materiel. *Skill Level 10:* Prepares stock records and other documents such as inventory, stock control, and accounting reports; operates office machines and data processing equipment; maintains technical reference library; reviews and processes supply requests; edits catalog data; performs financial inventory accounting administration functions; interprets supply documents in an automated environment for input and output processing; may perform accounting and sales functions in self-service supply, repair and utilities, clothing sales, and military exchange activities; receives, stores, and issues direct exchange items. *Skill Level 20:* Able to perform the duties required for Skill Level 10; reviews stock items and recommends additions, deletions, or changes; reconciles supply transactions and processes inventory adjustment reports; performs financial management functions. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises personnel in stock control and supply accounting, sales activity, or property disposal; plans and organizes work schedules and instructs subordinates; plans and organizes operations to conform with work standards, current regulations, and directives; reconciles problems in automated supply accounting system; assists in all aspects of purchasing and contracting activities and may act as contracting officer; serves as imprest fund custodian cashier; manages materials, determining and directing necessary maintenance or overhaul. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises material managers, supply activities, and sales; determines methods and procedures to improve material operations; assists in development and preparation of operations, including plans, maps, sketches, overlays, and other data; analyzes data to determine trends, quality control, and efficiency of operations.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in record keeping, 1 in warehouse practices, 2 in office machines, 1 in retailing, and 2 in computer operations. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 2 in warehouse practices, 2 in office machines, 2 in retailing, 2 in computer operations, and 2 in business mathematics (9/82).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 2 in warehouse practices, 2 in office machines, 2 in retailing, 2 in computer operations, 2 in business mathematics, 2 in office

procedures, 2 in inventory control, and 3 in personnel supervision (9/82).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 2 in warehouse practices, 2 in office machines, 2 in retailing, 2 in computer operations, 2 in business mathematics, 2 in office procedures, 2 in inventory control, 3 in personnel supervision, and 3 for field experience in management. In the upper-division baccalaureate category, 3 semester hours for field experience in sales management (9/82).

MOS-76P-003

MATERIEL CONTROL AND ACCOUNTING SPECIALIST

76P10
76P20
76P30
76P40

Exhibit Dates: 4/92-6/93. Effective 6/93, MOS 76P was discontinued, and its duties were incorporated into MOS 92A, Automated Logistical Specialist.

Career Management Field: 76 (Supply and Services).

Description

Summary: Performs or supervises inventory management functions and stock record keeping pertaining to receipt, distribution, and issue of materiel. *Skill Level 10:* Prepares stock records and other documents such as inventory, stock control, and accounting reports; operates office machines and data processing equipment; maintains technical reference library; reviews and processes supply requests; edits catalog data; performs financial inventory accounting administration functions; interprets supply documents in an automated environment for input and output processing; may perform accounting and sales functions in self-service supply, repair and utilities, clothing sales, and military exchange activities; receives, stores, and issues direct exchange items. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and provides technical guidance to subordinates; reviews stock items and recommends additions, deletions, or changes; reconciles supply transactions and processes inventory adjustment reports; maintains recorded property disposal activities; performs financial management functions. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises personnel in stock control and supply accounting, sales activity, or property disposal; plans and organizes work schedules and instructs subordinates; plans and organizes operations to conform with work standards, current regulations, and directives; reconciles problems in automated supply accounting system; assists in all aspects of purchasing and contracting activities and may act as contracting officer; serves as imprest fund custodian cashier; manages materials, determining and directing necessary maintenance or overhaul. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises material managers, supply activities, and sales; determines methods and procedures to improve material operations; assists in development and preparation of operations, including plans, maps, sketches, overlays, and other data; analyzes data to determine trends, quality control, and efficiency of operations.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in office machines, 3 in computer applications, 3 in materiel management, and 3 in personnel supervision (4/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in office machines, 3 in computer applications, 3 in materiel management, 3 in personnel supervision, and 2 in records and information management (4/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in office machines, 3 in computer applications, 3 in materiel management, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (4/92).

MOS-76V-002**MATERIEL STORAGE AND HANDLING SPECIALIST**

76V10
76V20
76V30
76V40

Exhibit Dates: 1/90–3/92.

Career Management Field: 76 (Supply and Service), subfield 761 (Supply).

Description

Summary: Receives or supervises receipt, storage, issue, inspection, packing, and shipment of materiel. **Skill Level 10:** Reviews and verifies shipping documents; inspects incoming equipment for serviceability and damage; operates materiel-handling equipment; packs, crates, stencils, weighs, and bands equipment for shipment or storage; assigns storage location for rotation of stock, maximum utilization of sensitive, classified, or hazardous storage, or warehouse space; maintains file of personnel authorized to receive supplies; performs inventory and location surveys; maintains centralized stock locator files; receives, inventories, and issues Quick Supply Store items. **Skill Level 20:** Able to perform the duties required for Skill Level 10; plans, organizes, controls, and supervises small materiel storage activity; provides guidance to subordinates; determines requirements and assigns use of warehouse equipment and personnel; supervises equipment storage including document control and location inventories. **Skill Level 30:** Able to perform the duties required for Skill Level 20; conducts inspections to assure compliance with standards and regulations; prepares reports regarding personnel, storage, and relocation of materiel; supervises a medium-sized warehouse activity. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises a large warehousing activity; conducts surveillance inspection of materiel in storage; develops training programs for subordinates.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse

practices. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, and 2 in inventory control (9/82).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in warehouse practices, 3 in record keeping, 2 in inventory control, and 2 in office procedures (9/82).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 for field experience in management, 3 in warehouse practices, 3 in record keeping, 2 in inventory control, 2 in office procedures, and 2 in material management (9/82).

MOS-76V-003**MATERIEL STORAGE AND HANDLING SPECIALIST**

76V10
76V20
76V30
76V40

Exhibit Dates: 4/92–6/93. Effective 6/93, MOS 76V was discontinued, and its duties were incorporated into MOS 92A, Automated Logistical Specialist.

Career Management Field: 76 (Supply and Services).

Description

Summary: Performs or supervises receipt, storage, issue, inspection, packing, shipment, and accounting of materiel. **Skill Level 10:** Reviews and verifies shipping documents; inspects incoming equipment for serviceability and damage; operates materiel-handling equipment; packs, crates, stencils, weighs, and bands equipment for shipment or storage; operates office equipment including computers; assigns storage location for rotation of stock, maximum utilization of sensitive, classified, or hazardous storage, or warehouse space; maintains file of personnel authorized to receive supplies; performs inventory and location surveys; maintains centralized stock locator files; receives, inventories, and issues Quick Supply Store items. **Skill Level 20:** Able to perform the duties required for Skill Level 10; plans, organizes, controls, and supervises small materiel storage activity; provides guidance to subordinates; determines requirements and assigns use of warehouse equipment and personnel; supervises equipment storage including document control and location inventories. **Skill Level 30:** Able to perform the duties required for Skill Level 20; conducts inspections to ensure compliance with standards and regulations; prepares reports regarding personnel, storage, and relocation of materiel; prepares and updates warehouse planographs; selects materiel-handling equipment; supervises warehouse activity. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises warehouse activity; conducts surveillance inspection of materiel in storage; develops training programs.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in office machines, 3 in materiel management, and 3 in personnel supervision (4/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in office machines, 3 in materiel management, 3 in personnel supervision, and 2 in records and information management (4/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in office machines, 3 in materiel management, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (4/92).

MOS-76X-002**SUBSISTENCE SUPPLY SPECIALIST**

76X10
76X20
76X30
76X40

Exhibit Dates: 1/90–3/92.

Career Management Field: 76 (Supply and Service), subfield 761 (Supply).

Description

Summary: Receives, stores, issues, distributes, inventories, and ships subsistence (food) supplies; works or supervises foodstuff warehousing operations, including receipt and storage of commodities in freezers, refrigerators, or dry storage bins and distribution to organizations, commissaries, and dining facilities. **Skill Level 10:** Receives and checks accuracy of quantities received and their condition; segregates damaged supplies; stores supplies and maintains locator records; issues stock and performs inventories; performs stock control and accounting; requisitions supplies to maintain stock levels; operates office machines and stock-handling equipment; checks quality and quantities of outgoing supplies and checks documents; distributes rations to each separate organization or account; may perform commissary store functions, including stocking, pricing, inventory, security, and construction of displays; serves as cashier. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises food distribution and small commissary operations; plans and coordinates supply activities; directs supply personnel; applies principles of automatic data processing to supply system; conducts on-the-job training; checks accuracy of work; inspects warehouse coolers and freezer units; recommends corrective action to minimize spoilage and improve supply procedures; administers stock control; performs sales functions in commissary stores; analyzes statistical data and reports; prices stock; computes resale item prices and reorders; maintains commissary consumption records. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises a medium-sized commissary or food supply activity; maintains monthly and quarterly records for each individual account supplied by the warehouse; maintains inventory control for 50 to 60 separate accounts and for all items. **Skill Level 40:** Able to perform the duties

required for Skill Level 30; supervises a large commissary or food supply activity; interprets and uses annual food plans; manages food reserve stock; performs advisory duties in planning and coordinating food reserve stocks; performs advisory duties in planning and coordinating food storage and distribution operations; ensures compliance with food supply policies.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices and 2 in office machines; if the duty assignment included commissary work, 3 semester hours in retail sales. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (1/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in office machines, and 2 in business mathematics; if the duty assignment included commissary work, 3 semester hours in retail sales (1/82).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 3 in personnel supervision, 2 in office machines, 2 in business mathematics, 2 in inventory control, and 2 in office procedures; if the duty assignment included commissary work, 3 semester hours in retail sales (1/82).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 3 in personnel supervision, 2 in office machines, 2 in business mathematics, 2 in inventory control, and 2 in office procedures; if the duty assignment included commissary work, 3 semester hours in retail sales. In the upper-division baccalaureate category, 3 semester hours for field experience in management (1/82).

MOS-76X-003

SUBSISTENCE SUPPLY SPECIALIST

76X10
76X20
76X30
76X40

Exhibit Dates: 4/92-6/93. Effective 6/93, MOS 76X was discontinued, and its duties were incorporated into MOS 92A, Automated Logistical Specialist.

Career Management Field: 76 (Supply and Service).

Description

Summary: Receives, stores, issues, distributes, inventories, and ships subsistence (food) supplies; works or supervises foodstuff warehousing operations, including receipt and storage of commodities in freezers, refrigerators, or dry storage bins and distribution to organizations, commissaries, and dining facilities. *Skill Level 10:* Receives and checks accuracy of quantities received and their condition; segregates damaged supplies; stores supplies and maintains locator records; issues stock and performs inventories; performs stock control and accounting; requisitions supplies to maintain stock levels; operates office machines, stock-handling equipment, and computers; checks

quality and quantities of outgoing supplies and checks documents; distributes rations to each separate organization or account; may perform commissary store functions, including stocking, pricing of goods, and inventory, security, and construction of displays; serves as cashier. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises food distribution and small commissary operations; plans and coordinates supply activities; directs supply personnel; applies principles of computer applications to supply system; conducts on-the-job training; checks accuracy of work; inspects warehouse coolers and freezer units; recommends corrective action to minimize spoilage and improve supply procedures; administers stock control; performs sales functions in commissary stores; analyzes statistical data and reports; prices stock; computes resale item prices and reorders; maintains commissary consumption records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a medium-sized commissary or food supply activity; maintains monthly and quarterly records for each individual account supplied by the warehouse; maintains inventory control for multiple accounts and for all items. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a large commissary or food supply activity; interprets and uses annual food plans; manages food reserve stock; performs advisory duties in planning and coordinating food reserve stocks; performs advisory duties in planning and coordinating food storage and distribution operations; ensures compliance with food supply policies.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in supply management, and 3 in personnel supervision; if additional skill identifier (ASI) was U5, Commissary Operations, 3 semester hours in retail management and 3 in sales management (4/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in supply management, 3 in personnel supervision, and 2 in records and information management; if additional skill identifier (ASI) was U5, Commissary Operations, 3 semester hours in retail management and 3 in sales management (4/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in supply management, 3 in personnel supervision, and 2 in records and information management; if additional skill identifier (ASI) was U5, Commissary Operations, 3 semester hours in retail management and 3 in sales management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (4/92).

MOS-76Y-002

UNIT SUPPLY SPECIALIST

76Y10
76Y20
76Y30
76Y40

Exhibit Dates: 1/90-3/92.

Career Management Field: 76 (Supply and Services), subfield 761 (Supply)

Description

Summary: Supervises or performs duties connected with the requisition, receipt, storage, accountability, and issuance of individual, organizational, and installation supplies, clothing, and equipment. *Skill Level 10:* Serves as a unit supply clerk; prepares supply records and forms, inventory control listings and count cards, and inventory reports; uses supply catalogs in requisitioning and distributing supplies; uses typewriter, adding machines, calculators, copiers, and microfiche in performing duties; keeps administrative files; practices safety, security, and accountability in storage operations; prepares, reviews, and corrects property listings and annexes; posts transactions to records; prepares clothing for issue; processes laundry including laundry rosters and payroll deduction forms for laundry; maintains security and records for weapons; prepares weapons reports and ammunition reports for commander. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; establishes priorities and assigns work; conducts on-the-job training; inspects completed work, records, and reports for accuracy and for compliance with directives; maintains automated supply accounting system; computes supply usage factors; applies principles of automatic data processing input filing, processing, and output techniques; supervises the issue, handling, and security of sensitive items and small arms. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises supply personnel in a large supply activity (serving over 450 military personnel); trains and supervises personnel in external load rigging for rotary wing aircraft; provides technical assistance to Records Specialists and Parts Specialists; ensures professional development of subordinates. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves on the staff at a battalion headquarters; may supervise other supply sergeants in the Supply Career Management Field (76); analyzes statistical data to determine trends; coordinates logistical activities; reviews policies; improves supply methods and procedures; conducts assistance visits and develops training programs; coordinates supply activities with other units.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in office procedures, 2 in office machines, and 1 in typing. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (1/82).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in office procedures, 3 in inventory control, 2 in office machines, and 1 in typing (1/82).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 3 in record keeping, 3 in office procedures, 3 in inventory control, 2 in office machines, and 1 in typing (1/82).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 3 in record keeping, 3 in office procedures, 3 in office administration, 3 in inventory control, 2 in office machines, and 1 in typing. In the upper-division baccalaureate category, 3 semester hours for field experience in management (1/82).

MOS-76Y-003**UNIT SUPPLY SPECIALIST**

76Y10
76Y20
76Y30
76Y40

Exhibit Dates: 4/92-6/93. Effective 6/93, MOS 76Y was discontinued, and its duties were incorporated into MOS 92A, Automated Logistical Specialist.

Career Management Field: 76 (Supply and Services).

Description

Summary: Supervises or performs duties connected with the requisition, receipt, storage, accountability, and issuance of individual, organizational, and installation supplies, clothing, and equipment. **Skill Level 10:** Serves as a unit supply clerk; prepares supply records and forms, inventory control listings and count cards, and inventory reports using Army computer software; uses supply catalogs in requisitioning and distributing supplies; uses microcomputer, typewriter, adding machines, calculators, copiers, and microfiche files; practices safety, security, and accountability in storage operations; prepares, reviews, and corrects property listings and annexes; posts transactions to records; prepares cash collection vouchers for lost, damaged, or destroyed items; prepares clothing for issue; processes laundry including laundry rosters and payroll deduction forms for laundry; prepares documents for turn-in of supplies and equipment; maintains security and records for weapons; prepares weapons and ammunition reports for commander. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; establishes priorities and assigns work; conducts on-the-job training; inspects completed work, records, and reports for accuracy and for compliance with directives; maintains automated supply accounting system; computes supply usage factors; determines method of relief from responsibility for lost, damaged, and destroyed items; applies principles of automatic data processing input filing, processing, and output techniques; supervises the issue, handling, and security of sensitive items and small arms. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises supply personnel in a large supply activity (serving over 450 military personnel); trains and supervises personnel in external load rigging for rotary wing aircraft; provides technical assistance to Records Specialists and Parts Specialists; reviews property book and

adjustment document for correctness; ensures professional development of subordinates. **NOTE:** May have progressed to 76Y30 from 76Y20 or 76C20, Equipment Records and Parts Specialist. **Skill Level 40:** Able to perform the duties required for Skill Level 30; serves on the staff at a battalion headquarters; may supervise other supply sergeants in the Supply Career Management Field (76); analyzes statistical data to determine trends; coordinates logistical activities; reviews policies; improves supply methods and procedures; conducts assistance visits; develops training programs; coordinates supply activities with other units.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in supply and logistics management, and 3 in personnel supervision (4/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in supply and logistics management, 3 in personnel supervision, and 2 in records and information management (4/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in supply and logistics management, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (4/92).

MOS-76Z-002**SENIOR SUPPLY SERGEANT**

76Z50

Exhibit Dates: 1/90-3/92.

Career Management Field: 76 (Supply and Service), subfield 760 (Supply General).

Description

Able to perform the duties required for skill level 40 of any MOS in the supply career management field (76); serves as a mid-level manager, supervising personnel engaged in large supply and service operations such as laundry, bath, graves, registration, decontamination, transportation, property disposal, medical supply, commissary operations, and resupply by airdrops; analyzes reports and evaluates supply operations and training; manages stock control and accounting, procurement, and inventory control; supervises storage, receiving, issue, materiel handling, and supply locator systems and facility safety and supply security operations; coordinates supply support data systems, salvage operations, and repair parts supply procedures; supervises the preparation of operating instructions, reports, and related technical material; recommends units for assignment to support special operations. May be assigned as first sergeant with the following duties: assists the commander in planning, supervising, inspecting, developing, and executing unit policy; advises commander on enlisted personnel matters; provides counsel and guidance to subordinates; coordinates administration of unit and support services; may serve as the principal

noncommissioned officer in a unit of approximately 150 persons.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in office administration, 3 in personnel supervision, 3 in inventory control, 3 in office procedures, 3 in warehouse practices, 3 in business mathematics, 2 in office machines, and 1 in typing. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in records administration, 3 in human relations, and 6 for field experience in management (1/82).

MOS-76Z-003**SENIOR SUPPLY/SERVICE SERGEANT**

76Z50

Exhibit Dates: 4/92-6/93. Effective 6/93, MOS 76Z was discontinued, and its duties were incorporated into MOS 92A, Automated Logistical Specialist.

Career Management Field: 76 (Supply and Services).

Description

Able to perform the duties required for skill level 40 of any MOS in the supply career management field (76); serves as a mid-level manager, supervising personnel engaged in large supply and service operations such as laundry, bath, graves, registration, decontamination, transportation, property disposal, medical supply, commissary operations, and resupply by airdrops; analyzes reports and evaluates supply operations and training; manages stock control and accounting, procurement, and inventory control; supervises storage, receiving, issue, materiel handling, and supply locator systems and facility safety and supply security operations; coordinates supply support data systems, salvage operations, and repair parts supply procedures; supervises the preparation of operating instructions, reports, and related technical material; recommends units for assignment to support special operations. May be assigned as first sergeant with the following duties: assists the commander in planning, supervising, inspecting, developing and executing unit policy; advises commander on enlisted personnel matters; provides counsel and guidance to subordinates; coordinates administration of unit and support services; may serve as the principal noncommissioned officer in a unit of approximately 150 persons. **NOTE:** May have progressed to 76Z50 from 76P40, Materiel Control and Accounting Specialist; 76V40, Materiel Storage and Handling Specialist; 76X40, Subsistence Supply Specialist; 76Y40, Unit Supply Specialist; 43M40, Fabric Repair Specialist; 43E50, Parachute Rigger; 57E50, Laundry and Bath Specialist; or 57F50, Graves Registration Specialist.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations man-

agement, and 3 in communication techniques for managers (4/92)

MOS-77F-001

PETROLEUM SUPPLY SPECIALIST

77F10
77F20
77F30
77F40
77F50

Exhibit Dates: 1/90–Present.

Career Management Field: 77 (Petroleum and Water).

Description

Summary: Operates and maintains petroleum storage, dispensing, and distribution facilities and pipeline systems. *Skill Level 10:* Receives and dispenses bulk and packaged petroleum products; operates forklift trucks, conveyors, and cranes in loading, unloading, moving, and storing petroleum supplies; marks petroleum containers for proper identification; conducts safety inspections of storage facilities; performs basic preventive maintenance on petroleum storage and handling equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises aircraft refueling; assures adherence to safety procedures; maintains inventory records of petroleum products; inspects petroleum storage sites; may supervise small petroleum storage or dispensing activity; maintains pipeline systems and pressure reducing stations; applies fire fighting and fire prevention techniques. *Skill Level 30:* Able to perform the duties required for Skill Level 20; schedules, orders, dispatches, and otherwise recommends movement of petroleum products; supervises pipeline or pump station operation and petroleum supply storage facilities; uses product cycles to minimize product contamination in storage facilities or pipelines; supervises dispersion and camouflage of supplies and equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; ensures compliance with fire and safety regulations; coordinates petroleum operations at staff level; furnishes required reports on equipment to higher headquarters; performs quality surveillance; may supervise up to 16 persons. *Skill Level 50:* Able to perform the duties required for Skill Level 40; as the principal noncommissioned officer in a large petroleum operation, assists commissioned officers in the planning, coordination, and supervision of petroleum storage and distribution and in the evaluation of operations and training; supervises and inspects work performed by subordinate noncommissioned officers; collects and prepares material pertaining to petroleum operations and training; may serve as a first sergeant of a company, a mid-level managerial position involving personnel, supply, training, and inspection responsibilities. **NOTE:** May have progressed to 77F50 from 77F40; 77L40 (Petroleum Laboratory Specialist); or 77W40 (Water Treatment Specialist).

Recommendation, Skill Level 10

In the vocational certificate category, 2 semester hours in fire safety. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (10/88).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in fire safety, 2 in basic mathe-

matrics, and 2 in pump maintenance. (**NOTE:** This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (10/88).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in fire safety, 2 in basic mathematics, and 2 in pump maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in personnel supervision (10/88).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in fire safety, 2 in basic mathematics, and 2 in pump maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial safety, 3 in personnel supervision, 3 for field experience in personnel supervision, 3 in human relations, and 2 in technical writing (10/88).

Recommendation, Skill Level 50

In the vocational certificate category, 2 semester hours in fire safety, 2 in basic mathematics, and 2 in pump maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial safety, 3 in personnel supervision, 3 for field experience in personnel supervision, 3 in human relations, 3 in technical writing, 3 in record keeping, 3 in office administration, and 2 in material management. In the upper-division baccalaureate category, 3 semester hours for field experience in management (10/88).

MOS-77L-001

PETROLEUM LABORATORY SPECIALIST

77L10
77L20
77L30
77L40

Exhibit Dates: 1/90–Present.

Career Management Field: 77 (Petroleum and Water).

Description

Summary: Performs or supervises physical and chemical tests on petroleum products to determine suitability for intended use. *Skill Level 10:* Prepares laboratory equipment for operation; prepares reagents; calibrates instruments; obtains petroleum test samples; performs preventive maintenance on technical laboratory equipment; performs specification tests, including water content, sediment, color, carbon residue, penetration, and oxidation stability; performs quality surveillance tests; uses fire prevention and safety control measures. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; employs cooperative fuel research engine to test fuels; prepares laboratory reports; evaluates test results with specification requirements and makes product recommendations. *Skill Level 30:* Able to perform the duties required for Skill Level 20; establishes calibration program; assists in establishing quality surveillance programs; supervises medium-sized petroleum laboratory activities; plans work schedules and assigns duties; inspects laboratory to ensure proper procedures are being followed, and work is being done efficiently; supervises inspection of anti-cicing additives and corrosion inhibitors during pipeline transfers; supervises placement, setup, and maintenance of laboratory equipment; coordinates petroleum product storage and dis-

tribution activities; reviews work reports and evaluates results; maintains inventory control and performs all related supply activity; ensures adherence to laboratory fire and safety procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises large petroleum laboratory; assists and plans quality surveillance operations; applies OSHA and EPA regulations; determines methods of reclaiming or downgrading contaminated and deteriorated petroleum products; performs quality surveillance of loading and unloading bulk shipments to ensure safety and to prevent contamination; ensures proper sampling and laboratory analysis of petroleum products; monitors sampling, testing, use, and blending of additives; reports on analysis results, environmental considerations, contracts for petroleum products, transporting, and storage; generally supervises from four to ten persons.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in petroleum product analysis, 2 in applied chemistry, 1 in chemical safety, and 1 in first aid. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (10/88).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in petroleum product analysis, 3 in basic analytical chemistry laboratory, 2 in applied chemistry, 1 in chemical safety, and 1 in first aid. (**NOTE:** This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (10/88).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in petroleum product analysis, 3 in basic analytical chemistry laboratory, 3 in personnel supervision, 2 in applied chemistry, 1 in chemical safety, and 1 in first aid (10/88).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in petroleum product analysis, 3 in basic analytical chemistry laboratory, 3 in personnel supervision, 3 in technical writing, 3 in human relations, 2 in applied chemistry, 2 in industrial safety, 1 in chemical safety, and 1 in first aid. In the upper-division baccalaureate category, 3 semester hours for field experience in management (10/88).

MOS-77W-001

WATER TREATMENT SPECIALIST

77W10
77W20
77W30
77W40

Exhibit Dates: 1/90–Present.

Career Management Field: 77 (Petroleum and Water).

Description

Summary: Supervises or installs, operates, and maintains water supply and treatment equipment and systems. *Skill Level 10:* Assists in water reconnaissance and setup, operation, and maintenance of water points; assists in site preparations, setup, operation, troubleshooting, and maintenance of water purification equipment and storage facilities; operates and maintains equipment used in production of potable

water in field locations; performs water quality analysis tests. *Skill Level 20:* Able to perform the duties required for Skill Level 10; installs, operates, and maintains water supply equipment and systems; provides technical guidance to subordinates; conducts water reconnaissance; develops water sources and water points and analyzes both raw and treated water; supervises operation of water purification equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the installation, operation, and maintenance of water supply and treatment systems; provides direct supervision to individual water team functions; inspects operational condition of equipment and systems; prepares reports on the operation and maintenance of water supply systems. *Skill Level 40:* Able to perform the duties required for Skill Level 30; develops and supervises operation of area water supply and treatment plan; directs water reconnaissance and water point development for divisional areas; manages operation and ensures quality control in water supply and purification activities.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in waste treatment. In the lower-division baccalaureate/associate degree category, 3 semester hours in water purification. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (10/88).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in waste treatment, 3 in water and sewage facility operation, and 3 in utility plumbing. In the lower-division baccalaureate/associate degree category, 3 semester hours in water purification and 3 in water supply. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (10/88).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in waste treatment, 3 in utility plumbing, and 6 in water and sewage facility operation. In the lower-division baccalaureate/associate degree category, 3 semester hours in water purification, 3 in water supply, and 3 in personnel supervision (10/88).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in waste treatment, 3 in utility plumbing, and 12 in water and sewage facility operation. In the lower-division baccalaureate/associate degree category, 3 semester hours in water purification, 3 in water supply, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (10/88).

MOS-79D-001

REENLISTMENT NCO

79D30
79D40
79D50

Exhibit Dates: 1/90-10/91.

Career Management Field: 79 (Recruitment and Retention).

Description

Summary: Counsels military personnel on reenlistment and performs related reenlistment duties. *Skill Level 30:* Contacts, interviews, and advises enlisted personnel on reenlistment prerequisites, options, obligations, opportunities,

and benefits; assists in designing individual career plans, using personnel records and data from interview and counseling sessions; relates physical, mental, and moral qualifications of individuals to prescribed standards and determines if service schooling is needed; processes reenlistment documents; maintains publications; compiles data; prepares reports; plans reenlistment ceremonies; and performs follow-ups. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinates. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises and evaluates subordinates; assigns duties; recommends reenlistment policy changes; develops and assesses reenlistment programs.

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in salesmanship. In the lower-division baccalaureate/associate degree category, 2 semester hours in public speaking, 2 in interview techniques, 1 in educational techniques, 1 in record keeping, and 1 in technical report writing. In the upper-division baccalaureate category, 1 semester hour for field experience in counseling (7/79).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in salesmanship. In the lower-division baccalaureate/associate degree category, 2 semester hours in public speaking, 3 in interview techniques, 2 in educational techniques, 1 in record keeping, and 1 in technical report writing. In the upper-division baccalaureate category, 2 semester hours for field experience in counseling and 2 in vocational counseling (7/79).

Recommendation, Skill Level 50

In the vocational certificate category, 2 semester hours in salesmanship. In the lower-division baccalaureate/associate degree category, 3 semester hours in public speaking, 3 in interview techniques, 2 in educational techniques, 1 in record keeping, 1 in technical report writing, and 2 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in counseling, 2 in vocational counseling, and 1 in personnel management (7/79).

MOS-79D-002

REENLISTMENT NCO (RESERVE COMPONENTS)

79D30
79D40
79D50

Exhibit Dates: 11/91-12/95. Effective 12/95, MOS 79D was discontinued and its duties were incorporated into MOS 79S, Career Counselor.

Career Management Field: 79 (Recruitment and Reenlistment).

Description

Summary: Counsels military personnel on reenlistment and performs related reenlistment duties. *Skill Level 30:* Contracts, interviews, and advises enlisted personnel on reenlistment prerequisites, options, obligations, opportunities, and benefits; assists in designing individual career plans, using personnel records and data from interview and counseling sessions; relates physical, mental, and moral qualifications of individuals to prescribed standards and determines if service schooling is needed; processes reenlistment documents; maintains publica-

tions; compiles data; prepares reports; plans reenlistment ceremonies; performs follow-ups. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides technical guidance to subordinates. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises and evaluates subordinates; assigns duties; recommends reenlistment policy changes; develops and assesses reenlistment programs.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in public speaking, 2 in interview techniques, 3 in record keeping, and 1 in technical report writing. In the upper-division baccalaureate category, 3 semester hours in vocational counseling (11/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in public speaking, 3 in interview techniques, 3 in record keeping, and 1 in technical report writing. In the upper-division baccalaureate category, 3 semester hours in vocational counseling and 2 for field experience in counseling (11/91).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in public speaking, 3 in interview techniques, 3 in record keeping, 1 in technical report writing, and 2 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in vocational counseling, 3 for field experience in counseling, and 2 in personnel management (11/91).

MOS-79R-001

RECRUITER

79R30
79R40
79R50

Exhibit Dates: Pending Evaluation. 8/95-Present.

MOS-79S-001

CAREER COUNSELOR

79S30
79S40
79S50

Exhibit Dates: Pending Evaluation. 8/95-Present.

MOS-81B-003

TECHNICAL DRAFTING SPECIALIST

81B10
81B20

Exhibit Dates: 1/90-9/91.

Career Management Field: 51 (General Engineering), subfield 511 (Technical Engineering).

Description

Summary: Drafts detailed working plans for construction of bridges, roads, railroads, piers, buildings, and utility installation. *Skill Level 10:* Assists in construction or design drafting; prepares drawings and plans of miscellaneous structures and mechanical and electrical devices using standard drafting equipment; plots profiles for construction of roads, railroads, and other construction projects from survey notes or contour maps; prepares charts and graphs to portray various data. *Skill Level 20:* Able to per-

form the duties required for Skill Level 10; provides technical guidance to subordinates; reviews, modifies, and corrects finished drawings to conform to specifications and assists design officer in modifying designs of steel, concrete, and wood structures

Recommendation, Skill Level 10

In the vocational certificate category, 10 semester hours in construction drafting. In the lower-division baccalaureate/associate degree category, 3 semester hours in construction drafting (7/79).

Recommendation, Skill Level 20

In the vocational certificate category, 30 semester hours in construction drafting. In the lower-division baccalaureate/associate degree category, 8 semester hours in construction drafting, 3 in algebra, 3 in trigonometry, 2 in communication skills, and 2 in personnel supervision (7/79).

MOS-81B-004

TECHNICAL DRAFTING SPECIALIST

81B10

81B20

Exhibit Dates: 10/91-6/94. Effective 6/94, MOS 81B was discontinued, and its duties were incorporated into MOS 51T, Technical Engineering Specialist.

Career Management Field: 51 (General Engineering).

Description

Summary: Drafts detailed working plans for construction of bridges, roads, railroads, piers, buildings, and utility installation. *Skill Level 10:* Assists in performance of construction or design drafting; prepares drawings and plans of miscellaneous structures and mechanical and electrical devices, using standard drafting equipment; plots profiles for construction using standard drafting equipment; plots profiles for construction of roads, railroads, and other construction projects from survey notes or contour maps; prepares charts and graphs to portray various data; may have worked with computer-aided design software (CAD). *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and provides technical guidance to subordinates; conducts on-the-job training; completes work records and forms; reviews, modifies, and corrects finished drawings to conform to specifications; checks construction schedules and bills of material; assists design officer in modifying designs of steel, concrete, and wood structures.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in construction drafting and 3 in personnel supervision (11/91).

MOS-81C-002

CARTOGRAPHER

81C10

81C20

81C30

81C40

Exhibit Dates: 1/90-9/92.

Career Management Field: 81 (Topographic Engineering), subfield 811 (Cartography)

Description

Summary: Supervises or performs cartographic drafting activities or compiles or revises planimetric and topographic maps. *Skill Level 10:* Draws or scribes cultural, topographic, hydrographic, or other features on drawings, transparent overlays, and scribing surfaces for reproduction of maps, compiles and revises planimetric and topographic maps; constructs mosaics from aerial photographs; constructs map projections and grids; uses photo interpretation methods for delineating aerial photographs; performs field classification of aerial photographs. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; keeps records and requests supplies; makes recommendations to supervisors. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises cartographic laboratory; edits computations, map compilation base, manuscripts, overlays, color proofs, and color separation drawings; makes production recommendations; maintains files; may supervise more than 12 persons. *Skill Level 40:* Able to perform the duties required for Skill Level 30; determines work priorities; supervises final inspection and editing of maps; plans, coordinates, and administers activities of cartographic laboratory with other units; may supervise more than 30 persons.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical drawing, 6 in cartography, 3 in photogrammetry, and 3 in aerial photographic interpretation. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical drawing, 6 in cartography, 3 in photogrammetry, 3 for field experience in cartography, 3 in aerial photographic interpretation, and credit in human relations on the basis of institutional evaluation (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical drawing, 6 in cartography, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 for field experience in cartography, 3 for field experience in management, and 3 in human relations (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical drawing, 6 in cartography, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 for field experience in cartography, 3 in introduction to management, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management (6/78).

MOS-81C-003

CARTOGRAPHER

81C10

81C20

81C30

81C40

Exhibit Dates: 10/92-Present.

Career Management Field: 81 (Topographic Engineering)

Description

Summary: Supervises or performs cartographic drafting activities or revises planimetric and topographic maps. *Skill Level 10:* Draws or scribes cultural, topographic, hydrographic, or other features on drawings, transparent overlays, and scribing surfaces for reproduction of maps, compiles and revises planimetric and topographic maps; constructs mosaics from aerial photographs; constructs map projections and grids; employs computer-assisted cartography; uses photo interpretation methods for delineating aerial photographs; performs field classification of aerial photographs. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; keeps records; requests supplies; may supervise more than eight persons; makes recommendations to supervisors. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises cartographic laboratory; edits computations, map compilation base, manuscripts, overlays, color proofs, and color separation drawings; makes production recommendations; maintains files; may supervise more than 25 persons. *Skill Level 40:* Able to perform the duties required for Skill Level 30; determines work priorities; supervises final inspection and editing of maps; plans, coordinates, and administers activities of cartographic laboratory with other units; may supervise more than 50 persons.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in elements of cartography, 3 in computer-assisted cartography, 3 in photogrammetry, and 3 in air photo interpretation. (NOTE: This recommendation for skill level 20 is valid for the dates 10/92-2/95 only) (10/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in elements of cartography, 3 in computer-assisted cartography, 3 in photogrammetry, 3 in air photo interpretation, and 3 for field experience in cartography (10/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in elements of cartography, 3 in computer-assisted cartography, 3 in photogrammetry, 3 in air photo interpretation, 3 for field experience in cartography, 3 in organizational management, and 3 for field experience in management (10/92).

MOS-81L-001**LITHOGRAPHER**

81L10
81L20
81L30
81L40

Exhibit Dates: Pending Evaluation. 8/95–Present.

MOS-81Q-002**TERRAIN ANALYST**

81Q10
81Q20
81Q30
81Q40

Exhibit Dates: 1/90–2/95.

Career Management Field: 81 (Topographic Engineering).

Description

Summary: Performs or supervises terrain analysis activities, including reconnaissance, collection and maintenance of source materials, data extraction, analysis and synthesis, and prediction of terrain and weather effects. *Skill Level 10:* Participates in the collection of data or physical and cultural terrain features; uses stereoscopic and monocular instruments to extract terrain data from remotely sensed imagery and existing topographic products; records analysis results on overlays; adds to geographic data base; employs basic drafting techniques; assists in preparation of manuscripts that accompany maps and charts; reviews terrain descriptions and records findings; assists senior personnel. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; uses various techniques to measure terrain data from remotely sensed imagery and existing topographic products; estimates conditions not available from existing sources; manipulates data and transforms results to product specifications; edits finished manuscripts for completeness and accuracy; uses data base information to predict the effects of weather on terrain; compiles analysis, overlays, and narrative for publication as special maps or terrain studies; inspects and edits completed work. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical assistance to subordinates and superiors; supervises and conducts on-the-job training; supervises and maintains administrative, intelligence, and reference files; supervises division terrain analysis team; advises commanding officer. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises terrain analysis activities in corps or theater Army terrain teams or higher unit; coordinates collection requirements; plans and coordinates organization, training, and technical operations; coordinates with numerous other staff elements in the Army.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in physical geography, 3 in aerial photographic interpretation, and 3 in technical communications. In the upper-division baccalaureate category, 3 semester hours in photogrammetry and 3 in geographic field methods. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/88).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in physical geography, 3 in aerial photographic interpretation, and 3 in technical communications. In the upper-division baccalaureate category, 3 semester hours in photogrammetry, 3 in geographic field methods, 3 in terrain analysis, and 3 in cartography (7/88).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in physical geography, 3 in aerial photographic interpretation, 3 in technical communications, 3 in project management, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in photogrammetry, 3 in geographic field methods, 3 in terrain analysis, 3 in cartography, and 3 in advanced photogrammetry (7/88).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in physical geography, 3 in aerial photographic interpretation, 3 in technical communications, 3 in project management, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in photogrammetry, 3 in geographic field methods, 3 in terrain analysis, 3 in cartography, 3 in advanced photogrammetry, 3 for field experience in management, and 3 in management problems (7/88).

MOS-81Q-003**TERRAIN ANALYST**

81Q10
81Q20
81Q30
81Q40

Exhibit Dates: 3/95–Present.

Career Management Field: 81 (Topographic Engineering).

Description

Summary: Performs or supervises terrain analysis activities, including reconnaissance, collection and maintenance of source materials, data extraction, analysis and synthesis, and prediction of terrain and weather effects. *Skill Level 10:* Participates in the collection of data or physical and cultural terrain features; uses stereoscopic and monocular instruments to extract terrain data from remotely sensed imagery and existing topographic products; records analysis results on overlays; adds to geographic data base; employs basic drafting techniques; assists in preparation of manuscripts that accompany maps and charts; reviews terrain descriptions and records findings; assists senior personnel. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; uses various techniques to measure terrain data from remotely sensed imagery and existing topographic products; estimates conditions not available from existing sources; manipulates data and transforms results to product specifications; edits finished manuscripts for completeness and accuracy; uses data base information to predict the effects of weather on terrain; compiles analysis, overlays, and narrative for publication as special maps or terrain studies; inspects and edits completed work. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical assistance to sub-

ordinates and superiors; supervises and conducts on-the-job training; supervises and maintains administrative, intelligence, and reference files; supervises division terrain analysis team; advises commanding officer. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises terrain analysis activities in corps or theater Army terrain teams or higher unit; coordinates collection requirements; plans and coordinates organization, training, and technical operations; coordinates with numerous other staff elements in the Army.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (7/88).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (7/88).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in physical geography, 3 in aerial photographic interpretation, 3 in technical communications, 3 in project management, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in photogrammetry, 3 in geographic field methods, 3 in terrain analysis, and 3 in cartography (7/88).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in physical geography, 3 in aerial photographic interpretation, 3 in technical communications, 3 in project management, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in photogrammetry, 3 in geographic field methods, 3 in terrain analysis, 3 in cartography, 3 in advanced photogrammetry, 3 for field experience in management, and 3 in management problems (7/88).

MOS-81Z-001

TOPOGRAPHIC ENGINEERING SUPERVISOR
81Z50

Exhibit Dates: 1/90–9/92.

Career Management Field: 81 (Topographic Engineering), subfield 810 (Topographic Engineering, General).

Description

Supervises topographic surveying, cartography, and photolithography activities; serves as first sergeant of a company or as a topographic operations sergeant; assists in topographic planning and control activities; assists in determining requirements and providing program and technical supervision of topographic mapping and other military intelligence programs including geodetic and topographic surveying activities; assists in command supervision and coordination of map reproduction and topographic map supply programs. NOTE: May have progressed to 81Z50 from 81C40, Cartographer; 82D40, Topographic Surveyor; or 83F40, Photolithographer.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours for field experience in graphic arts, 3 in record keeping, 3 in human relations, 3 in personnel supervision, 3 in introduction to management, and 6 in printing management. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (graphic arts), 3 in

industrial management, 3 in plant organization, and 6 for field experience in management (6/78).

MOS-81Z-002

TOPOGRAPHIC ENGINEERING SUPERVISOR
81Z50

Exhibit Dates: 10/92–Present.

Career Management Field: 81 (Topographic Engineering)

Description

Supervises topographic surveying, cartography, and photolithography activities; serves as first sergeant of a company or as topographic operations sergeant; assists in topographic planning and control activities; assists in determining requirements and providing program and technical supervision of topographic mapping and other military intelligence programs including geodetic and topographic surveying activities; assists in command supervision and coordination of map reproduction and topographic map supply programs. **NOTE:** May have progressed to 81Z50 from 81C40, Cartographer; 81Q40, Terrain Analyst; 82D40, Topographic Surveyor; or 83F40, Printing and Bindery Specialist.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if individual has attained pay grade E-9, additional credit as follows: 3 semester hours in operations management, 3 in management problems, and 3 in communication techniques for managers (10/92).

MOS-82B-002

CONSTRUCTION SURVEYOR
82B10
82B20

Exhibit Dates: 1/90–9/91.

Career Management Field: 51 (General Engineering), subfield 511 (Technical Engineering).

Description

Summary: Performs construction surveys to determine relative positions of points on the ground to provide data for construction layout and earthwork. **Skill Level 10:** Serves as construction surveyor; reads maps and places appropriate reference points for construction layout and earthwork; operates surveying instruments and equipment such as tape, alidade, plane table, level, transit and theodolite; employs such instruments as aneroid barometer and compass; records observations and makes minor computations; maintains and adjusts survey instruments and equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; directs survey party and works independently while conducting construction surveys; conducts initial reconnaissance of construction area; interprets construction drawings and briefs survey party; directs use of stadia; establishes centerlines for horizontal curves and spirals, and grade lines for vertical curves; responsibilities include surveys for all features of bridges, buildings, sewer lines, roads, airfields, and drainage; maintains records of survey party work.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic land surveying (7/79).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic and advanced land surveying. In the upper-division baccalaureate category, 3 semester hours for field experience in management (7/79).

MOS-82B-003

CONSTRUCTION SURVEYOR
82B10
82B20

Exhibit Dates: 10/91–6/94. Effective 6/94, MOS 82B was discontinued, and its duties were incorporated into MOS 51T, Technical Engineering Specialist.

Career Management Field: 51 (General Engineering).

Description

Summary: Performs construction surveys to determine relative positions of points on the ground to provide data for construction layout and earthwork. **Skill Level 10:** Serves as construction surveyor; reads maps and places appropriate reference points for construction layout and earthwork; operates surveying instruments and equipment such as tape, alidade, plane table, level, transit and theodolite; employs such instruments as aneroid barometer, compass and optical range finders; records observations and makes minor computations; maintains and adjusts survey instruments and equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; directs survey party and works independently while conducting construction surveys; conducts initial reconnaissance of construction area; interprets construction drawings and briefs survey party; directs use of stadia; establishes centerlines for horizontal curves and spirals, and grade lines for vertical curves; responsibilities include surveys for all features of bridges, buildings, sewer lines, roads, airfields, and drainage; maintains records of survey party work; conducts on-the-job training; completes work records and forms.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in land surveying and 3 in personnel supervision (11/91).

MOS-82C-003

FIELD ARTILLERY SURVEYOR
82C10
82C20
82C30
82C40

Exhibit Dates: 1/90–Present.

Career Management Field: 13 (Field Artillery).

Description

Summary: Engages in surveying activities. **Skill Level 10:** Determines distance between survey stations; marks survey stations; performs astronomical observations for determining locations; operates and maintains survey

equipment, including theodolite, laser-activated infrared distance measuring instrument, PADS inertial system gyroscope unit for locations, and the Backup Computer Systems (Hewlett-Packard Computer) for computations, knows manual computation formulas, equations, procedures, and forms, as well as ephemeris and logarithmic tables. **Skill Level 20:** Able to perform the duties required for Skill Level 10; applies knowledge of basic algebra, basic geometry, and trigonometric functions and logarithms; computes azimuth and distance, coordinates, altimetric, and trigonometric heights, and astronomical azimuths from field data. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises a survey party; selects starting station and method of survey; reviews survey data for accuracy; supervises maintenance of survey party equipment; instructs in survey procedures and techniques. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises and coordinates operations of several survey parties; prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to maps and aerial photos, 2 in surveying, 1 in trigonometry, 1 in algebra, 1 in computer operations, and 1 in introduction to astronomy. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/89).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to maps and aerial photos, 8 in surveying, 2 in algebra, 1 in trigonometry, 2 in computer operations, and 1 in introduction to astronomy. (**NOTE:** This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (6/89).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to maps and aerial photos, 8 in surveying, 2 in algebra, 1 in trigonometry, 2 in computer operations, 1 in introduction to astronomy, 2 in communication skills, and 3 in principles of supervision (6/89).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to maps and aerial photos, 8 in surveying, 2 in algebra, 1 in trigonometry, 2 in computer operations, 1 in introduction to astronomy, 3 in communication skills, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (6/89).

MOS-82D-002

TOPOGRAPHIC SURVEYOR
82D10
82D20
82D30
82D40

Exhibit Dates: 1/90–9/92.

Career Management Field: 81 (Topographic Engineering), subfield 812 (Surveying).

Description

Summary: Supervises or conducts surveys to provide control data for map making and supervises or performs topographic or geodetic com-

putations. *Skill Level 10:* Records topographic survey data; operates survey instruments; performs topographic computations; conducts topographic surveys; interprets maps and aerial photographs; records measurements and other field data; computes horizontal distances from taped, electronic, or stadia measurement; computes angular closures and triangulations; computes differences in elevation from trigonometric, altimetric, and differential leveling; computes azimuths from stellar observations and from grid coordinates; employs planetable with alidade, theodolite, level, microwave, infrared, and base line taping distance measuring equipment; operates programmable electronic calculator. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs geodetic computation and adjustments and topographic survey observations to extend horizontal and vertical control; employs theodolite, precise levels, altimeters, and lasers; makes field checks; obtains data to calibrate instruments; computes and adjusts second-order surveys; computes elevation of tidal bench marks from tidal observation data for secondary stations; determines and writes required numbers and types of condition equation used in least squares adjustments; operates and writes programs for programmable electronic calculation; directs and controls personnel when acting as survey party chief. *Skill Level 30:* Able to perform the duties required for Skill Level 20; must be able to supervise personnel performing the duties of 82D20 or 41B20 (Topographic Instrument Repair Specialist); performs astronomical observations; computes geographic azimuths to verify topographic surveys; supervises survey section or computing activities in a survey party; calibrates equipment; performs survey reconnaissance; evaluates field data and results obtained; computes geographic positions to include elevation from observation derived from triangulations, trilateration, and traverse and spirit leveling; computes astronomical and la-place azimuth, latitude, and longitude from astronomical observations; computes gravity survey field data and earth tide gravity correction; evaluates and verifies results of all computations; supervises programming of electronic calculators. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises geodetic or topographic surveying party and computing activities of survey operations; plans work schedule; collects relevant data; supervises reconnaissance; plans and arranges for field party support in remote areas; coordinates surveying and computing activities; assigns duties; plans training and instructs personnel; supervises field survey activities in support of photogrammetric requirements; prepares, reviews, and consolidates technical, personnel, and administrative reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics (including algebra, trigonometry, geometry, and spherical geometry), 3 in physics (optics), 3 in surveying, 3 in geodetic surveying, and 3 in engineering computations. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics (including algebra, trigonometry, geometry, and spherical geometry), 3 in physics

(optics), 3 in surveying, 3 in geodetic surveying, 3 in engineering computations, 3 in data processing, and 6 for field experience in surveying (6/78).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in technical writing and 3 in engineering computations. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics (including algebra, trigonometry, geometry, and spherical geometry), 3 in physics (optics), 3 in surveying, 3 in geodetic surveying, 3 in personnel supervision, 6 in engineering computations, 9 for field experience in surveying, 3 in data processing, and 3 in human relations (6/78).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in engineering computations and 3 in record keeping. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics (including algebra, trigonometry, geometry, and spherical geometry), 3 in physics (optics), 3 in surveying, 3 in geodetic surveying, 3 in technical writing, 3 in personnel supervision, 9 in engineering computations, 12 for field experience in surveying, 3 in human relations, 3 in introduction to management, and 3 in data processing. In the upper-division baccalaureate category, 3 semester hours in personnel management and 5 in project layout (6/78).

MOS-82D-003

TOPOGRAPHIC SURVEYOR

82D10
82D20
82D30
82D40

Exhibit Dates: 10/92–Present.

Career Management Field: 81 (Topographic Engineering).

Description

Summary: Supervises or conducts surveys to provide control data for map making and supervises or performs topographic or geodetic computations. *Skill Level 10:* Records topographic survey data; operates survey instruments; performs topographic computations; conducts topographic surveys; interprets maps and aerial photographs; records measurements and other field data; computes horizontal distances from taped, electronic, or stadia measurement; computes angular closures and triangulations; computes differences in elevation from trigonometric, altimetric, and differential leveling; computes azimuths from stellar observations and from grid coordinates; employs planetable with alidade, theodolite, level, microwave, infrared, and base line taping distance measuring equipment; operates programmable electronic calculator. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs geodetic computation and adjustments and topographic survey observations to extend horizontal and vertical control; employs theodolite, precise levels, altimeters, and lasers; makes field checks; obtains data to calibrate instruments; computes and adjusts second-order surveys; computes elevation of tidal bench marks from tidal observations data for secondary stations; utilizes electronic calculators and microcomputers for electronic calculations; directs and controls personnel when acting as

survey party chief. *Skill Level 30:* Able to perform the duties required for Skill Level 20; must be able to supervise personnel performing the duties of 82D20 or 41B20 (Topographic Instrument Repair Specialist); performs astronomical observations; computes geographic azimuths to verify topographic surveys; supervises survey section or computing activities in a survey party; calibrates equipment; performs survey reconnaissance; evaluates field data and results obtained; computes geographic positions including elevation from observation derived from triangulations, trilateration, and traverse and spirit leveling; computes azimuth, latitude, and longitude from astronomical observations; computes gravity survey field data and earth tide gravity correction; evaluates and verifies results of all computations; supervises the use of electronic calculators and microcomputers for electronic calculations. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises geodetic or topographic surveying party and computing activities of survey operations; plans work schedule; collects relevant data; supervises reconnaissance; plans and arranges for field party support in remote areas; coordinates surveying and computing activities; assigns duties; plans training and instructs personnel; supervises field survey activities in support of photogrammetric requirements; prepares, reviews, and consolidates technical, personnel, and administrative reports.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 in geodetic surveying, 4 in technical mathematics, 3 in introduction to microcomputers, 6 for field experience in surveying, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 10/92-2/95 only) (10/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 in geodetic surveying, 4 in technical mathematics, 3 in introduction to microcomputers, 9 for field experience in surveying, 3 in personnel supervision, and 2 in records and information management (10/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 in geodetic surveying, 4 in technical mathematics, 3 in introduction to microcomputers, 9 for field experience in surveying, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (10/92).

MOS-83E-003

PHOTO AND LAYOUT SPECIALIST

83E10
83E20
83E30

Exhibit Dates: 1/90–12/95. Effective 12/95, MOS 83E was discontinued and its duties were incorporated into MOS 81L, Lithographer.

Career Management Field: 81 (Topographic Engineering).

Description

Summary: Operates lithographic copy cameras and prepares lithographic negatives and positives, flats, contact prints, color proofs, scribe and peels coat products, and offset press plates. *Skill Level 10:* Operates copy cameras, film processors, and densitometers to produce negatives from camera-ready copy; selects correct materials, exposures, and chemicals; uses developer and fixer solutions; washes and dries negatives; performs stripping and/or platemaking activities; operates platemaking equipment; produces rectified aerial prints; performs operator maintenance on photographic and platemaking equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10, provides technical guidance to subordinates; makes quality checks; performs detailed topographic process photography and lithographic stripping and platemaking; performs preventive maintenance on automatic film processor; calibrates digital densitometers. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises camera, photomechanical, layout, and platemaking activities and personnel; ensures quality in all operations; trains personnel in photolithographic operations; maintains supply inventory.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in process photography and 3 in platemaking and/or stripping for offset printing (based on institutional evaluation of the individual's experience). (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/88).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in process photography, 3 in platemaking and/or stripping for offset printing (based on institutional evaluation of the individual's experience), and 3 for field experience in process photography. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (7/88).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in process photography, 3 in platemaking and/or stripping for offset printing (based on institutional evaluation of the individual's experience), 6 for field experience in process photography, and 3 in personnel supervision (7/88).

MOS-83F-002**PRINTING AND BINDERY SPECIALIST**

83F10
83F20
83F30
83F40

Exhibit Dates: 1/90-9/92.

Career Management Field: 81 (Topographic Engineering), subfield 813 (Photolithographer).

Description

Summary: Operates bindery equipment, offset presses, and duplicating equipment and supervises photolithographic activities. *Skill Level 10:* Performs bindery operations and operates offset presses and duplicators; services and adjusts equipment; mixes etch solutions; stores supplies; cleans work area and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; makes quality

checks; detects equipment malfunctions; demonstrates operation and maintenance procedures. *Skill Level 30:* Able to perform the duties required for Skill Level 20; must be able to supervise personnel performing the duties of 83F20, 41K20 (Reproduction Equipment Repair Specialist, and 83L20, (Photo and Layout Specialist); supervises lithographic photography and platemaking, offset press and duplicating, and bindery operations in a small lithographic activity; may supervise more than 19 persons. NOTE: May have progressed to 83F30 from 83F20, 83L20, Photo and Layout Specialist; or 41K20, Reproduction Equipment Repair Specialist. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a large photolithography; organizes and controls work flow; prepares administrative and operational reports; determines work and supply requirements; may supervise more than 30 persons.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in operation and maintenance of duplication and reproduction machines and 3 for field experience in bindery operations. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/78).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in operation and maintenance of duplication and reproduction machines, 3 for field experience in reproduction operations, and 3 for field experience in reproduction operations (6/78).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in operation and maintenance of duplication and reproduction machines, 3 for field experience in bindery operations, 3 for field experience in reproduction operations, 3 in basic photography, 3 in platemaking, 3 in stripping for offset printing, 3 in human relations, and 3 in personnel supervision (6/78).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in operation and maintenance of duplication and reproduction machines, 3 for field experience in bindery operations, 3 for field experience in reproduction operations, 3 in basic photography, 3 in platemaking, 3 in stripping for offset printing, 3 in human relations, 3 in personnel supervision, 3 in technical report writing, and 3 for field experience in management (6/78).

MOS-83F-003**PRINTING AND BINDERY SPECIALIST**

83F10
83F20
83F30
83F40

Exhibit Dates: 10/92-2/95.

Career Management Field: 81 (Topographic Engineering).

Description

Summary: Operates and performs operator maintenance on offset presses and duplicating and bindery equipment; supervises various photolithographic activities. *Skill Level 10:* Operates offset press and duplicating equipment,

including single color printing, mounting plates and blankets, and preparing and adjusting inking assembly; performs bindery operations, including cutting paper, stitching, drilling, and collecting printed matter. *Skill Level 20:* Able to perform the duties required for Skill Level 10, utilizes a second color head on offset presses, supervises and provides technical guidance to subordinates; conducts on-the-job training. *Skill Level 30:* Able to perform the duties required for Skill Level 20, leads offset press team, supervises small or medium-sized offset press/offset duplicator and bindery activities; ensures quality of printed material and bindery operations; performs cost estimating for basic printing operations. *Skill Level 40:* Able to perform the duties required for Skill Level 30; coordinates activities and sets priorities for the entire unit; coordinates with prepress operations (camera, stripping, and platemaking) to ensure that schedules are met; may supervise up to 100 persons; schedules reproduction projects; maintains photolithographic operations. NOTE: May progress to 83F40 from 83F30 or 83E30, Photo and Layout Specialist.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in printing processes and equipment, 3 in press procedures, 3 in finishing and bindery operations, and 3 in personnel supervision (10/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in printing processes and equipment, 3 in press procedures, 3 in finishing and bindery operations, 3 in printing planning and control, 3 in estimating and supplies, 3 in personnel supervision, and 2 in records and information management (10/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in printing processes and equipment, 3 in press procedures, 3 in finishing and bindery operations, 3 in printing planning and control, 3 in estimating and supplies, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management, 3 for field experience in management, and 3 in printing/graphic arts management (10/92).

MOS-83F-004**PRINTING AND BINDERY SPECIALIST**

83F10
83F20
83F30
83F40

Exhibit Dates: 3/95-12/95. Effective 12/95, MOS 83F was discontinued and its duties were incorporated into MOS 81L, Lithographer.

Career Management Field: 81 (Topographic Engineering).

Description

Summary: Operates and performs operator maintenance on offset presses and duplicating and bindery equipment; supervises various photolithographic activities. *Skill Level 10:* Operates offset press and duplicating equipment, including single color printing, mounting plates

and blankets, and preparing and adjusting inking assembly; performs bindery operations, including cutting paper, stitching, drilling, and collecting printed matter. *Skill Level 20:* Able to perform the duties required for Skill Level 10; utilizes a second color head on offset presses; supervises and provides technical guidance to subordinates; conducts on-the-job training. *Skill Level 30:* Able to perform the duties required for Skill Level 20; leads offset press team; supervises small or medium-sized offset press/offset duplicator and bindery activities; ensures quality of printed material and bindery operations; performs cost estimating for basic printing operations. *Skill Level 40:* Able to perform the duties required for Skill Level 30; coordinates activities and sets priorities for the entire unit; coordinates with prepress operations (camera, stripping, and platemaking) to ensure that schedules are met; may supervise up to 100 persons; schedules reproduction projects; maintains photolithographic operations. NOTE: May progress to 83F40 from 83F30 or 83E30, Photo and Layout Specialist.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (10/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in printing processes and equipment, 3 in press procedures, 3 in finishing and bindery operations, 3 in personnel supervision, and 2 in records and information management (10/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in printing processes and equipment, 3 in press procedures, 3 in finishing and bindery operations, 3 in printing planning and control, 3 in estimating and supplies, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management, 3 for field experience in management, and 3 in printing/graphic arts management (10/92).

MOS-88H-001

CARGO SPECIALIST

88H10
88H20
88H30
88H40

Exhibit Dates: 1/90–10/92.

Career Management Field: 88 (Transportation).

Description

Summary: Transfers or supervises the transfer of cargo to and from water, land, and air transports by manual and mechanical methods. *Skill Level 10:* Serves as cargo handler and checker; loads, unloads, checks, and tallies cargo; uses slings, nets, hooks, pallets, spreaders, lifting bars, winches, hoists, and other cargo-handling equipment; employs safety procedures; signals winchman, hoistman, or cargo equipment operator where to move cargo. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as hatch foreman or

senior cargo checker and enforces safety practices. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a medium-sized terminal operation work force by planning and organizing work schedules, assigning duties, and designating work groups (hatch gangs) as required for each operation; advises on handling of all types of cargo and demonstrates techniques and use of equipment; coordinates heavy lift equipment and special terminal operations gear; prepares technical, personnel, and administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a large terminal work force normally consisting of 56 or more persons.

Recommendation, Skill Level 10

In the vocational certificate category, 4 semester hours in cargo handling and rigging. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90–9/91 only) (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 7 semester hours in cargo handling and rigging (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 13 semester hours in cargo handling, stowage, and rigging. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 2 in report writing, 2 in cargo planning, 2 in cargo processing and documentation, and 1 in transportation of dangerous materials (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 13 semester hours in cargo handling, stowage, and rigging. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 in records administration, 3 in report writing, 3 for field experience in management, 2 in cargo processing and documentation, 2 in cargo planning, and 1 in transportation of dangerous materials (5/76).

MOS-88H-002

CARGO SPECIALIST

88H10
88H20
88H30
88H40

Exhibit Dates: 11/92–2/95.

Career Management Field: 88 (Transportation).

Description

Summary: Transfers or supervises the transfer of cargo to and from water, land, and air transports by manual and mechanical methods. *Skill Level 10:* Serves as cargo handler and checker; loads, unloads, checks, and tallies cargo; uses slings, nets, hooks, pallets, spreaders, lifting bars, winches, hoists, and other cargo-handling equipment; employs safety procedures; signals winchman, hoistman, or cargo equipment operator where to move cargo. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as hatch foreman or senior cargo checker; enforces safety practices; operates cranes; supervises rough terrain equipment maintenance. *Skill Level 30:* Able to perform the duties required for Skill Level 20; inspects and organizes storage operations; req-

uisitions and issues supplies and equipment; supervises a medium-sized terminal operations work force by planning and organizing work schedules, assigning duties, and designating work groups (hatch gangs) as required for each operation; advises on handling of all types of cargo and demonstrates techniques and use of equipment; coordinates heavy lift equipment and special terminal operations gear; prepares technical, personnel, and administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a large terminal work force normally consisting of 50 or more persons; operates and supervises storage areas employing foreign nationals.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (11/92).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in cargo handling and rigging. In the lower-division baccalaureate/associate degree category, 3 semester hours in cargo handling equipment operations and maintenance and 3 in personnel supervision (11/92).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in cargo handling and rigging, 3 in cargo stowage, and 1 in transportation of hazardous materials. In the lower-division baccalaureate/associate degree category, 3 semester hours in cargo handling equipment operations and maintenance and 3 in personnel supervision (11/92).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in cargo handling and rigging, 3 in cargo stowage, and 1 in transportation of hazardous materials. In the lower-division baccalaureate/associate degree category, 3 semester hours in cargo handling equipment operations and maintenance and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (11/92).

MOS-88H-003

CARGO SPECIALIST

88H10
88H20
88H30
88H40

Exhibit Dates: 3/95–Present.

Career Management Field: 88 (Transportation).

Description

Summary: Transfers or supervises the transfer of cargo to and from water, land, and air transports by manual and mechanical methods. *Skill Level 10:* Serves as cargo handler and checker; loads, unloads, checks, and tallies cargo; uses slings, nets, hooks, pallets, spreaders, lifting bars, winches, hoists, and other cargo-handling equipment; employs safety procedures; signals winchman, hoistman, or cargo equipment operator where to move cargo. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as hatch foreman or senior cargo checker; enforces safety practices; operates cranes; supervises rough terrain equipment maintenance. *Skill Level 30:* Able to per-

form the duties required for Skill Level 20; inspects and organizes storage operations; requisitions and issues supplies and equipment; supervises a medium-sized terminal operations work force by planning and organizing work schedules, assigning duties, and designating work groups (hatch gangs) as required for each operation; advises on handling of all types of cargo and demonstrates techniques and use of equipment; coordinates heavy lift equipment and special terminal operations gear; prepares technical, personnel, and administrative reports. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises a large terminal work force normally consisting of 50 or more persons; operates and supervises storage areas employing foreign nations.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (11/92).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (11/92).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in cargo handling and rigging. In the lower-division baccalaureate/associate degree category, 3 semester hours in cargo handling equipment operations and maintenance and 3 in personnel supervision (11/92).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in cargo handling and rigging, 3 in cargo stowage, and 1 in transportation of hazardous materials. In the lower-division baccalaureate/associate degree category, 3 semester hours in cargo handling equipment operations and maintenance and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (11/92).

MOS-88K-001

WATERCRAFT OPERATOR

88K10

88K20

88K30

88K40

Exhibit Dates: 1/90-10/92.

Career Management Field: 88 (Transportation).

Description

Summary: Operates and performs deck duties on Army watercraft and, in some instances, amphibians. **Skill Level 10:** Performs general seaman duties; under close supervision, assists in docking, unloading, and anchoring watercraft; assists in loading and unloading cargo; stands lookout watch; assists in inspecting, servicing, and operating fire equipment, lifeboats, and rafts; performs preventive maintenance and inspections on Army watercraft; maneuvers Army watercraft; uses simple sounding devices, aids to navigation, steering compass courses, and running lights; communicates with stations ashore and afloat, using accepted communications equipment and techniques; applies basic water safety and rescue procedures. **Skill Level 20:** Able to perform the duties required for Skill Level 10; operates and

dispatches Army watercraft and, under close supervision, operates Army watercraft for specific missions in accordance with navigational and communications rules and principles; keeps records of watercraft status and movements. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises the operation of watercraft and small boat crew; knows capabilities and limitations of Army watercraft and assigns and dispatches them accordingly; provides berthing and unberthing services to large or oceangoing vessels; computes fuel requirements and plans maintenance; knows procedures for abandoning ship including sea rescue and lifeboat operations; supervises embarking and debarking of troops; instructs subordinates in watercraft operational practices, procedures, and techniques. **NOTE:** Some Skill Level 30 personnel are trained as operators of large amphibian vehicles and can supervise their operation. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises the operations of a large boat crew or assists in controlling Army watercraft operations; coordinates work activities; reviews, consolidates, and prepares technical, personnel, and administrative reports; supervises up to 20 persons.

Recommendation, Skill Level 10

In the vocational certificate category, 4 semester hours in seamanship, 1 in piloting and navigation, 1 in communications, and 1 in safety. **(NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in seamanship, 6 in piloting and navigation, 3 in communications, and 1 in safety (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 8 semester hours in seamanship, 6 in piloting and navigation, 3 in communications, 3 in basic navigation, 3 in advanced navigation, 1 in safety, and additional credit in amphibian operation on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in navigation and 3 in human relations (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 8 semester hours in seamanship, 6 in piloting and navigation, 3 in communications, 3 in basic navigation, 3 in advanced navigation, 1 in safety, and additional credit in amphibian operation on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in navigation, 3 in human relations, 3 in marine management, 3 for field experience in management, and 3 in personnel supervision (6/76).

MOS-88K-002

WATERCRAFT OPERATOR

88K10

88K20

88K30

88K40

Exhibit Dates: 11/92-Present.

Career Management Field: 88 (Transportation).

Description

Summary: Operates and performs deck duties on Army watercraft and, in some instances, amphibians. **Skill Level 10:** Performs general seaman duties; under close supervision, assists in docking, unloading, and anchoring watercraft; assists in loading and unloading cargo; stands lookout watch; assists in inspecting, servicing, and operating fire equipment, lifeboats, and rafts; performs preventive maintenance and inspections on Army watercraft; maneuvers Army watercraft; uses simple sounding devices, aids to navigation, and steering compass courses; communicates with stations ashore and afloat using accepted communications equipment and techniques; applies basic water safety and rescue procedures. **Skill Level 20:** Able to perform the duties required for Skill Level 10; operates and dispatches Army watercraft and, under close supervision, operates Army watercraft for specific missions in accordance with navigation and communications rules and principles; keeps records of watercraft status and movements. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises the operation of watercraft and small boat crew; knows capabilities and limitations of Army watercraft and assigns and dispatches them accordingly; provides berthing and unberthing services to large or oceangoing vessels; computes fuel requirements and plans maintenance; knows procedures for abandoning ship including sea rescue and lifeboat operations; supervises embarking and debarking of troops; instructs subordinates in watercraft operation practices, procedures, and techniques. **NOTE:** Some Skill Level 30 personnel are trained as operators of large amphibian vehicles and can supervise their operation. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises the operations of a large boat crew or assists in controlling Army watercraft operations; coordinates work activities; reviews, consolidates, and prepares technical, personnel, and administrative reports; supervises up to 20 persons.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in communications and 1 in safety. In the lower-division baccalaureate/associate degree category, 3 semester hours in seamanship, 3 in basic navigation, and 3 in personnel supervision. **(NOTE:** This recommendation for skill level 20 is valid for the dates 11/92-2/95 only) (11/92).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in communications and 1 in safety. In the lower-division baccalaureate/associate degree category, 3 semester hours in seamanship, 3 in basic navigation, 3 in personnel supervision, and 2 in records management (11/92).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in communications and 1 in safety. In the lower-division baccalaureate/associate degree category, 3 semester hours in seamanship, 3 in basic navigation, 3 in personnel supervision, and 2 in records management. In the upper-division baccalaureate category, 3

semester hours in organizational management and 3 for field experience in management (11/92).

MOS-88L-001

WATERCRAFT ENGINEER

88L10

88L20

88L30

88L40

Exhibit Dates: 1/90-10/92.

Career Management Field: 88 (Transportation).

Description

Summary: Supervises or performs maintenance on propulsion systems and auxiliary equipment of marine vessels, and in some instances, on amphibians. *Skill Level 10:* Under close supervision, performs maintenance on Army watercraft; applies safety precautions pertinent to starting, stopping, and operating main diesel engines, electrical machinery, and other auxiliary components installed on Army watercraft; reads and records pressures and temperatures to ensure safe and efficient operation of machinery; uses hand and power tools; assists in performing preventive maintenance inspections and correcting maintenance shortcomings and deficiencies on watercraft. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; computes fuel consumption, tank capacities, and pumping rates for loading and discharging; maintains a working knowledge of damage control, fire prevention, and federal, state, and local environmental pollution control regulations; adjusts or troubleshoots malfunctioning diesel engines, electrical machinery, and auxiliary equipment; makes emergency repairs or takes emergency damage control measures at sea; performs soldering and pipefitting; uses precision tools; interprets technical publications; replaces engine and auxiliary equipment subassemblies; performs preventive maintenance inspections on watercraft; in some instances, may also perform these duties on amphibians. *Skill Level 30:* Able to perform the duties required for Skill Level 20; evaluates job performance of subordinates; maintains a reference library of technical manuals and service bulletins; interprets technical blueprints; troubleshoots, repairs, purges, recharges, and tests watercraft refrigeration systems; uses special test equipment and instruments in repairing diesel engines and accessory items; assists supervisor in engineering maintenance functions; plans and organizes work schedules and assigns duties to subordinates; instructs subordinates in work production and quality control procedures; is capable of supervising a medium-sized watercraft maintenance facility; establishes physical layout of work site and ensures an efficient, clean, and safe work environment; requisitions, issues, stores, and maintains records of supplies and equipment; coordinates work activities with other maintenance elements; recommends changes to technical publications as required; in some instances, may also perform these duties on amphibians. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a large marine maintenance facility; estimates and prepares preliminary budget forecasts of supply and maintenance activities; allocates funds and resources for the efficient operation

of supply and maintenance activities; establishes operating procedures on the basis of directives and information received from superiors.

Recommendation, Skill Level 10

In the vocational certificate category, 4 semester hours in internal-combustion engine principles, 1 in internal-combustion engine operation, and 1 in shipboard operations. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 7 semester hours in internal-combustion engine principles, 4 in internal-combustion engine operation, 5 in shipboard operations, and additional credit in amphibian maintenance on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 7 semester hours in internal-combustion engine principles, 5 in shipboard operations, 4 in internal-combustion engine operation, 3 in basic refrigeration, and 3 in use and care of tools and test equipment, and additional credit in amphibian maintenance on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in watercraft maintenance, 3 in marine refrigeration, and 3 in human relations, and additional credit in amphibian maintenance on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 7 semester hours in internal-combustion engine principles, 5 in shipboard operations, 4 in internal-combustion engine operation, 3 in basic refrigeration, and 3 in use and care of tools and test equipment, and additional credit in amphibian maintenance on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in watercraft maintenance, 3 in marine refrigeration, 3 in human relations, 3 in introduction to management, 3 in personnel supervision, 3 for field experience in management, and additional credit in amphibian maintenance on the basis of institutional evaluation (6/76).

MOS-88L-002

WATERCRAFT ENGINEER

88L10

88L20

88L30

88L40

Exhibit Dates: 11/92-Present.

Career Management Field: 88 (Transportation).

Description

Summary: Supervises or performs maintenance on propulsion systems and auxiliary equipment of marine vessels, and in some instances, on amphibians. *Skill Level 10:* Under close supervision, performs maintenance on Army watercraft; applies safety precautions pertinent to starting, stopping, and operating main diesel engines, electrical machinery, and other auxiliary components installed on Army watercraft; reads and records pressures and temperatures to ensure safe and efficient operation of machinery; uses hand and power tools; assists in performing preventive maintenance inspections and correcting maintenance short-

comings and deficiencies on watercraft. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; computes fuel consumption, tank capacities, and pumping rates for loading and discharging; troubleshoots, repairs, purges, recharges, and tests watercraft refrigeration systems; maintains a working knowledge of damage control, fire prevention, and federal, state, and local environmental pollution control regulations; adjusts or troubleshoots malfunctioning diesel engines, hydraulic and pneumatic systems, marine drive gear, electrical machinery, and auxiliary equipment; makes emergency repairs or takes emergency damage control measures at sea; performs soldering, oxyacetylene and arc welding, and pipefitting; uses precision tools; interprets technical publications; replaces engine and auxiliary equipment subassemblies; performs preventive maintenance inspections on watercraft; in some instances, may also perform these duties on amphibians. *Skill Level 30:* Able to perform the duties required for Skill Level 20; evaluates job performance of subordinates; maintains a reference library of technical manuals and service bulletins; interprets technical blueprints; uses special test equipment and instruments in repairing diesel engines and accessory items; assists supervisor in engineering maintenance functions; plans and organizes work schedules and assigns duties to subordinates; instructs subordinates in work production and quality control procedures; is capable of supervising a medium-sized watercraft maintenance facility; establishes physical layout of work site and ensures an efficient, clean, and safe work environment; requisitions, issues, stores, and maintains records of supplies and equipment; coordinates work activities with other maintenance elements; recommends changes to technical publications as required; in some instances, may also perform these duties on amphibians. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a large marine maintenance facility; performs managerial duties; estimates and prepares preliminary budget forecasts of supply and maintenance activities; allocates funds and resources for the efficient operation of supply and maintenance activities; establishes operating procedures on the basis of directives and information received from superiors.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in hydraulics/pneumatics, 2 in automotive electricity, 2 in marine gear transmissions, 2 in diesel engine maintenance, 3 in diesel engine overhaul, 2 in air conditioning and refrigeration, 1 in oxyacetylene welding, 1 in arc welding, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 11/92-2/95 only) (11/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in hydraulics/pneumatics, 2 in automotive electricity, 2 in marine gear transmissions, 2 in diesel engine maintenance, 3 in diesel engine overhaul, 2 in air conditioning and refrigeration, 1 in oxyacetylene welding, 1 in arc welding, 3 in personnel

supervision, and 3 in maintenance management (11/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in hydraulics/pneumatics, 2 in automotive electricity, 2 in marine gear transmissions, 2 in diesel engine maintenance, 3 in diesel engine overhaul, 2 in air conditioning and refrigeration, 1 in oxyacetylene welding, 1 in arc welding, 3 in personnel supervision, and 3 in maintenance management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (11/92).

MOS-88M-001

MOTOR TRANSPORT OPERATOR

88M10
88M20
88M30
88M40

Exhibit Dates: 1/90-10/92.

Career Management Field: 88 (Transportation).

Description

Summary: Operates wheel vehicles to transport personnel and cargo. **Skill Level 10:** Operates single-unit wheel vehicles with a capacity of five tons or less in all conditions of light, weather, and terrain; applies safety rules and practices; ensures proper loading of vehicle, performs simple vehicular maintenance; keeps records of operation and performance; may serve as chauffeur or dispatcher; depending on the type of unit to which assigned, may also perform the same duties for tractors, semitrailers, tank transporters, and other vehicles with a capacity of more than five tons. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises small motor transport activity; participates in convoy operations and organization, including planning, the establishment of control measures, and the observance of civil laws and military regulations; reviews and prepares operation reports; determines the number of vehicles required for a given operation; schedules route and controls movements of motor transport equipment; may perform or direct driver testing functions. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises a large motor transport activity.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in motor vehicle operation (single-unit truck); if the duty assignment was heavy vehicle driver (tractor-trailer), 3 additional semester hours in motor vehicle operation. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in motor vehicle operation (single-unit truck); if the duty assignment was heavy vehicle driver (tractor-trailer), 4 additional semester hours in motor vehicle operation (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in motor vehicle operation (single-unit truck); if the duty assignment was heavy vehicle driver (tractor-trailer), 4 additional semester hours in motor vehicle operation. In the lower-division baccalaureate/associate degree category, 6 semester hours in motor vehicle transportation management and 3 in motor maintenance management, if the duty assignment was driver test sergeant, 3 additional semester hours for an internship in education (driver training) (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 8 semester hours in motor vehicle operation (all road vehicles). In the lower-division baccalaureate/associate degree category, 6 semester hours in motor transportation management, 3 in motor maintenance management, 3 in personnel supervision, 3 in human relations, and 3 for field experience in management; if the duty assignment was driver test sergeant, 3 additional semester hours for an internship in education (driver training) (5/76).

MOS-88M-002

MOTOR TRANSPORT OPERATOR

88M10
88M20
88M30
88M40

Exhibit Dates: 11/92-Present.

Career Management Field: 88 (Transportation).

Description

Summary: Operates wheel vehicles to transport personnel and cargo. **Skill Level 10:** Operates single-unit wheel vehicles with a capacity of five tons or less in all conditions of light, weather, and terrain; applies safety rules and practices; ensures proper loading of vehicle; performs simple vehicular maintenance; keeps records of operation and performance; may serve as chauffeur or dispatcher; depending on the type of unit to which assigned, may also perform the same duties for tractors, semitrailers, tank transporters, and other vehicles with a capacity of more than five tons. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; may serve as dispatcher; performs recovery of vehicles. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises small motor transportation activity; participates in convoy operations and organization, including planning, the establishment of control measures, and the observance of civil laws and military regulations; may perform as convoy march unit commander; reviews and prepares reports; determines the number of vehicles required for a given operation; schedules routes and controls movements of motor transport equipment; may perform or direct driver training functions. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises a large motor transport activity; prepares reconnaissance data for transport movement; prepares map overlays; establishes motor park; establishes engineer requirements to support a truck battalion.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (11/92).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in motor vehicle operation. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 11/92-2/95 only) (11/92).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in motor vehicle operation. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in motor vehicle transportation management, and 3 in motor vehicle maintenance management. In the upper-division baccalaureate category, 3 semester hours for field experience in management (11/92).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in motor vehicle operation. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 6 in motor vehicle transportation management, and 3 in motor vehicle maintenance management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (11/92).

MOS-88N-001

TRAFFIC MANAGEMENT COORDINATOR

88N10
88N20
88N30
88N40

Exhibit Dates: 1/90-10/92.

Career Management Field: 88 (Transportation).

Description

Summary: Coordinates the departure and arrival of freight and personnel by air, rail, highway, and water. **Skill Level 10:** Performs clerical duties associated with the logistics of freight and personnel movements; issues government and civilian shipping documents, including freight bills, bills of lading, and freight manifest sheets; assists military members in the preparation of travel itineraries, personal property shipping documents, and passenger movement forms. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides guidance to subordinates. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises medium-scale freight movement office; plans, directs, and controls subordinates; assists in the development of future transportation plans; supervises freight reconsignment, maintains liaison with military and civilian transportation facilities; reviews, consolidates and prepares reports covering transportation movement operations. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises personnel at a large-scale freight movement office; when requested, reviews recommendations concerning facilities and site selection for depots, terminals, and railheads; advises superiors on present and future transportation capabilities and technical problems.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in traffic and transportation or in physical distribution management. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (5/76).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in traffic and transportation or physical distribution management (5/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in traffic and transportation or in physical distribution management, 3 in human relations, 3 in personnel supervision, and additional credit in traffic and transportation or in physical distribution management on the basis of institutional evaluation (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in traffic and transportation or in physical distribution management, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and additional credit in traffic and transportation or in physical distribution management on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in introduction to management (5/76).

MOS-88N-002**TRAFFIC MANAGEMENT COORDINATOR**

88N10
88N20
88N30
88N40

Exhibit Dates: 11/92–2/95.

Career Management Field: 88 (Transportation).

Description

Summary: Coordinates the departure and arrival of freight and personnel by air, rail, highway, and water. **Skill Level 10:** Performs clerical duties associated with the logistics of freight and personnel movements; issues government and civilian shipping documents, including freight bills, bills of lading, and freight manifest sheets; assists military members in the preparation of travel itineraries, personal property shipping documents, and passenger movement forms; has a working knowledge of Lotus 1,2,3, Multimate, and Harvard Graphics. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides guidance to subordinates; assists in providing on-the-job training; advises passengers on the preparation and use of transportation documentation. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises medium-scale freight movement office; plans, directs, and controls personnel; assists in the development of future transportation plans; supervises freight reconsignment, maintains liaison with military and civilian transportation facilities; reviews, consolidates, and prepares reports covering transportation movement operations. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises personnel at a large freight movement office; when requested, reviews recommendations concerning facilities and site selection for depots, terminals, and railheads; advises superiors on

ing facilities and site selection for depots, terminals, and railheads; advises superiors on present and future transportation capabilities and technical problems.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in traffic and transportation or physical distribution management and 3 in computer applications (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in traffic and transportation or in physical distribution management, 3 in personnel supervision, 3 in business communications, and 3 in computer applications (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in traffic and transportation or in physical distribution management, 3 in personnel supervision, 3 in business communications, and 3 in computer applications. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (2/93).

MOS-88N-003**TRAFFIC MANAGEMENT COORDINATOR**

88N10
88N20
88N30
88N40

Exhibit Dates: 3/95–Present.

Career Management Field: 88 (Transportation).

Description

Summary: Coordinates the departure and arrival of freight and personnel by air, rail, highway, and water. **Skill Level 10:** Performs clerical duties associated with the logistics of freight and personnel movements; issues government and civilian shipping documents, including freight bills, bills of lading, and freight manifest sheets; assists military members in the preparation of travel itineraries, personal property shipping documents, and passenger movement forms; has a working knowledge of Lotus 1,2,3, Multimate, and Harvard Graphics. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides guidance to subordinates; assists in providing on-the-job training; advises passengers on the preparation and use of transportation documentation. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises medium-scale freight movement office; plans, directs, and controls personnel; assists in the development of future transportation plans; supervises freight reconsignment, maintains liaison with military and civilian transportation facilities; reviews, consolidates, and prepares reports covering transportation movement operations. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises personnel at a large freight movement office; when requested, reviews recommendations concerning facilities and site selection for depots, terminals, and railheads; advises superiors on

present and future transportation capabilities and technical problems.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (2/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in traffic and transportation or in physical distribution management, 3 in personnel supervision, 3 in business communications, and 3 in computer applications (2/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in traffic and transportation or in physical distribution management, 3 in personnel supervision, 3 in business communications, and 3 in computer applications. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (2/93).

MOS-88P-001**LOCOMOTIVE REPAIRER**

88P10
88P20
88P30
88P40

Exhibit Dates: 1/90–1/94.

Career Management Field: 88 (Transportation).

Description

Summary: Supervises or maintains nonelectric sections of locomotives. **Skill Level 10:** Inspects locomotives to diagnose malfunctioning parts; accompanies locomotive operator on test runs and observes functions of locomotives; cleans and lubricates components as required; performs technical inspections on locomotives and auxiliary equipment to ensure proper maintenance has been performed; interprets technical drawings and sketches. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. **Skill Level 30:** Able to perform the duties required for Skill Level 20; performs initial and final inspections on locomotives scheduled for maintenance; supervises and instructs repairers in methods and techniques of repairs; enforces safety practices; prepares technical reports on locomotives and estimates personnel, supplies, parts, and equipment necessary to restore locomotives, tanks, and tank cars to efficient operating condition; plans, organizes, and coordinates work activity of subordinates engaged in maintaining, inspecting, and repairing locomotives and auxiliary equipment. **Skill Level 40:** Able to perform the duties required for skill level 30 of MOS 88P or 88S (Locomotive Electrician); supervises or controls repairs of mechanical and electrical portions of locomotives.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in locomotive maintenance. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in locomotive maintenance (5/76)

Recommendation, Skill Level 30

In the vocational certificate category, 8 semester hours in locomotive maintenance. In the lower-division baccalaureate/associate degree category, 9 semester hours in management and supervision of locomotive maintenance (5/76)

Recommendation, Skill Level 40

In the vocational certificate category, 8 semester hours in locomotive maintenance. In the lower-division baccalaureate/associate degree category, 9 semester hours in management and supervision of locomotive maintenance, 3 in personnel supervision, and 3 in industrial management (5/76).

MOS-88P-002**RAILWAY EQUIPMENT REPAIRER (RESERVE COMPONENTS)**

88P10

88P20

88P30

88P40

Exhibit Dates: Pending Evaluation. 2/94–Present.

MOS-88Q-001**RAILWAY CAR REPAIRER**

88Q10

88Q20

88Q30

88Q40

Exhibit Dates: 1/90–6/94. Effective 6/94, MOS 88Q was discontinued, and its duties were incorporated into MOS 88P, Locomotive Repairer, Reserve Components.

Career Management Field: 88 (Transportation).

Description

Summary: Supervises or performs maintenance on railway passenger, freight, and hospital cars. **Skill Level 10:** Dismantles and reassembles major components and auxiliary equipment; examines wheels, axles, journals, journal bearings, and draft gear for structural and safety defects; inspects cars for defects which interfere with proper loading and makes necessary repairs; repairs hand brake mechanisms, gear ratchets, linkage, center sills, and body bolsters; straightens bent sections of bodies; paints and stencils railway cars; performs technical inspection of railway cars to ensure proper maintenance; interprets blueprints and sketches; assists in salvage and rehabilitation of cars. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; inspects railway cars prior and subsequent to maintenance. **Skill Level 30:** Able to perform the duties required for skill level 20 of MOS 88Q or 88R (Airbrake Repairer); plans, organizes, coordinates, and supervises work activity of a railway car section team; instructs repairers in proper maintenance techniques and safety procedures; calculates personnel and material requirements for specific repair work; maintains records and prepares detailed technical reports. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises a large facility (with a

minimum of 39 subordinates) involved in repairing railway cars and airbrake systems of locomotives and cars.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in practices and procedures of railroad car repair. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90–9/91 only) (5/76)

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in practices and procedures of railroad car repair. In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel supervision (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in practices and procedures of railroad car repair. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 1 in technical writing (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in practices and procedures of railroad car repair. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 for field experience in management, and 1 in technical writing (5/76).

MOS-88R-001**AIRBRAKE REPAIRER**

88R10

88R20

Exhibit Dates: 1/90–6/94. Effective 6/94, MOS 88R was discontinued, and its duties were incorporated into MOS 88P, Locomotive Repairer, Reserve Components.

Career Management Field: 88 (Transportation).

Description

Summary: Inspects, services, and repairs air brake systems of locomotives and cars. **Skill Level 10:** Inspects air brake components and system for defects; dismantles, cleans, and lubricates components; removes and replaces defective parts; tests and adjusts components for maximum efficiency of air brake system; makes appropriate entries in parts and log books; prepares written reports. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in inspecting, servicing, and repairing air brake systems. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90–9/91 only) (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in inspecting, servicing, and repairing air brake systems (5/76).

MOS-88S-001**LOCOMOTIVE ELECTRICIAN**

88S10

88S20

88S30

Exhibit Dates: 1/90–6/94. Effective 6/94, MOS 88S was discontinued, and its duties were

incorporated into MOS 88P, Locomotive Repairer, Reserve Components.

Career Management Field: 88 (Transportation).

Description

Summary: Supervises or repairs electrical portions of diesel electric systems of diesel-electric locomotives. **Skill Level 10:** Inspects, dismounts, dismantles, cleans, repairs, and replaces defective components of electrical systems of diesel-electric locomotives, including generators, traction motors, auxiliary motors, reversers, contactors, relays, and regulators; load-tests repaired electrical components; restores commutator surfaces, rebands armatures, and repairs armature bearings; calibrates electric measuring instruments; reads schematic wiring diagrams. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises medium-sized activity involved in repairing electrical portions of electrical systems of diesel-electric locomotives; interprets complex wiring diagrams; prepares shop layouts; develops plans for utilization of personnel, materials, and equipment; conducts on-the-job training; requisitions tools, parts, and supplies.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in repair of electrical systems. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90–9/91 only) (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in repair of electrical systems (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 8 semester hours in repair of electrical systems. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in shop management, and 3 in human relations (5/76).

MOS-88T-001**RAILWAY SECTION REPAIRER**

88T10

88T20

88T30

88T40

Exhibit Dates: 1/90–1/94.

Career Management Field: 88 (Transportation).

Description

Summary: Performs and/or supervises maintenance, repair, and cleanup of tracks, roadbeds, switches, and other railway facilities. **Skill Level 10:** Inspects, repairs, and maintains railway right of way and adjoining structures, including switches, signals, degree of elevation, track curvature, and tie spacing; controls the issuing of repair and maintenance equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; determines need for repair and construction equipment and arranges for movement to job site; conducts on-the-job training in minor repairs, emphasizing safety to both train and work repair crews; supervises limited size maintenance, repair, and clean up crews. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises

medium-sized crews (normally 29-38 subordinates or 2 section gangs); adjusts work assignments to best reflect capabilities of subordinates; prepares reports relating to the maintenance, repairs, and cleanup of railway right of way facilities. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises the maintenance, repair, and cleanup activities of a large railway facility, normally consisting of more than 39 subordinates.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in railroad operations. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 7 semester hours in railroad operations (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 7 semester hours in railroad operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 3 for field experience in management (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 7 semester hours in railroad operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 6 for field experience in management (5/76).

MOS-88T-002

RAILWAY SECTION REPAIRER (RESERVE COMPONENTS)

88T10
88T20
88T30
88T40

Exhibit Dates: Pending Evaluation. 2/94-Present.

MOS-88U-001

LOCOMOTIVE OPERATOR

88U10
88U20
88U30
88U40

Exhibit Dates: 1/90-1/94.

Career Management Field: 88 (Transportation).

Description

Summary: Operates steam, electric, and diesel-electric locomotives and related equipment. *Skill Level 10:* Operates steam, electric, and diesel-electric locomotives and related equipment; fires and sustains steam pressure by either hand or stoker firing of coal-burning locomotives; assists in performing the duties required for skill level 20. *Skill Level 20:* Able to perform the duties required for Skill Level 10; interprets specific operating instructions; efficiently operates locomotives and trains, observing appropriate gauges and meters; lubricates moving parts of locomotive; interprets and executes operating instructions; inspects equipment for proper operating condition; interprets train orders; compiles performance and delay reports for each trip; submits locomotive inspection reports noting corrective action needed for defects. *Skill Level 30:* Able to per-

form the duties required for Skill Level 20; reviews operation and inspection reports; investigates schedule delays, accidents, and unusual operating incidents and recommends corrective action; assigns duties to locomotive operators and other crew and monitors their performance; provides on-the-job training; enforces safety procedures; coordinates maintenance of locomotives; prepares technical, personnel, and administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises operation of steam, electric, and diesel-electric locomotives and related equipment.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in steam, electric, and diesel-electric mechanics, 3 in operation and maintenance of locomotive engines, and 3 in railway safety. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in steam, electric, and diesel-electric mechanics, 3 in operation and maintenance of locomotive engines, and 3 in railway safety (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in operation and maintenance of locomotive engines, 3 in steam, electric, and diesel mechanics, and 3 in railway safety. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 in report writing, and 1 in safety (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in operation and maintenance of locomotive engines, 3 in steam, electric, and diesel mechanics, and 3 in railway safety. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 for field experience in management, 3 in report writing, and 1 in safety (5/76).

MOS-88U-002

RAILWAY OPERATIONS CREWMEMBER

88U10
88U20
88U30
88U40

Exhibit Dates: Pending Evaluation. 2/94-Present.

MOS-88V-001

TRAIN CREW MEMBER

88V10
88V20
88V30
88V40

Exhibit Dates: 1/90-6/94. Effective 6/94, MOS 88V was discontinued, and its duties were incorporated into MOS 88U, Railway Operations Crewmember.

Career Management Field: 88 (Transportation).

Description

Summary: Serves as yardmaster, conductor, or brakeman in the make-up and movement of railway cars and trains. *Skill Level 10:* Performs

as a brakeman; receives orders for switching and performs car coupling and uncoupling operations; applies safety rules; gives and interprets railway signals for train control and operation; places placarded cars in trains and ensures that cars are properly loaded and lashed for safe handling; prepares and interprets train orders; prepares reports and forms for yard and railway operations; inspects rolling stock to determine operating condition. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as a conductor; supervises the operation of train and coordinates train movements; reviews and interprets train orders and timetables; instructs and supervises enginemen and brakemen in connecting and disconnecting trains and cars and switching cars to sidings or spurs. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as an assistant yardmaster; supervises and trains personnel in railway yard operation, including the handling, classification, and switching of trains and cars; maintains record of daily movement of railway cars; assures adherence to railway safety procedures; reviews, consolidates, and prepares technical, personnel, and administrative reports covering railway yard activities. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises railway yard operations; normally supervises two skill level 30 yardmasters.

Recommendation, Skill Level 10

In the vocational certificate category, 7 semester hours in the make-up and movement of railway cars and trains. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in the make-up and movement of railway cars and trains. In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel supervision (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 13 semester hours in the make-up and movement of railway cars and trains. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 in human relations (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 13 semester hours in the make-up and movement of railway cars and trains. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 6 for field experience in management (5/76).

MOS-88W-001

RAILWAY MOVEMENT COORDINATOR

88W10
88W20
88W30
88W40

Exhibit Dates: 1/90-6/94. Effective 6/94, MOS 88W was discontinued, and its duties were incorporated into MOS 88U, Railway Operations Crewmember.

Career Management Field: 88 (Transportation).

Description

Summary: Supervises train dispatching or operates railway stations, railway signals, and switches; assists in control and coordination of train movements. *Skill Level 10:* Accounts for car and train movement by compiling records reflecting locations of all rolling stock, keeps records of arriving and departing trains; computes operational and statistical reports on traffic volume, demurrage, expediting, and train movements; requisitions cars; supervises loading, unloading, and checks bills of lading (waybills); seals cars; receives requisitions for empty cars and directs movement to loading areas; establishes liaison with other operating personnel and civilian carrier operating personnel to ensure safe and prompt handling of freight. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises receipt and transmission of messages relating to train movements; reviews transit time; coordinates and arranges for train crews; establishes close liaison with representatives of civilian and military railroads; supervises on-the-job training. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides staff supervision to subordinates in railway operating activities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in traffic and transportation or in physical distribution management. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (5/76).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in traffic and transportation or in physical distribution management (5/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in traffic and transportation or in physical distribution management (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in traffic and transportation or in physical distribution management, 3 in personnel supervision, and 3 in human relations (5/76).

MOS-88X-001

RAILWAY SENIOR SERGEANT
88X50

Exhibit Dates: 1/90–Present.

Career Management Field: 88 (Transportation).

Description

Supervises and coordinates maintenance of way and maintenance of equipment and railway operations, including the overall supervision of 88P40 (Locomotive Repairer), 88Q40 (Railway Car Repairer), 88T40 (Railway Section Repairer), 88U40 (Locomotive Operator), 88V40 (Train Crew Member), and 88W40 (Railway Movement Coordinator) personnel; advises superiors on all matters relating to operations, maintenance, and repair; monitors and controls railway passenger and freight traffic;

prepares operational reports and training material.

Recommendation

In the upper-division baccalaureate category, 3 semester hours in records administration, 3 in personnel management, 3 in human relations, 3 for field experience in management, 3 in maintenance management, 3 in introduction to management, and 6 in transportation management (5/76).

MOS-88Y-001

MARINE SENIOR SERGEANT
88Y50

Exhibit Dates: 1/90–10/92.

Career Management Field: 88 (Transportation).

Description

Is a mid-level manager responsible for approximately 150 subordinates engaged in watercraft operation and maintenance; assists in planning, implementing, and coordinating administrative activities, operations, and training programs; prepares, edits, and consolidates reports, records, plans, and training materials. NOTE: May have progressed to 88Y50 from 88K40 (Watercraft Operator) or 88L40 (Watercraft Engineer).

Recommendation

In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in personnel management, and 3 in records administration; if the duty assignment was chief instructor, 3 additional semester hours for an internship in education (6/76).

MOS-88Y-002

MARINE SENIOR SERGEANT
88Y50

Exhibit Dates: 11/92–12/95. Effective 12/95, MOS 88Y was discontinued and its duties were incorporated into MOS 88K, Watercraft Operator, and MOS 88Z, Transportation Senior Sergeant.

Career Management Field: 88 (Transportation).

Description

Manages 80-150 subordinates engaged in watercraft operation and maintenance; assists in planning, implementing, and coordinating administrative activities, operations, and training programs; prepares, edits, and consolidates reports, records, plans, and training materials. NOTE: May have progressed to 88Y50 from 88K40 (watercraft Operator) or 88L40 (Watercraft Engineer).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in records and information management, 3 in personnel supervision, and 3 in report writing. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in organizational management, and 3 in human resource management; if paygrade E-9 has been attained, additional credit may be granted as follows: 3 semester hours in management problems and 3 in communication techniques for managers (11/92).

MOS-88Z-001

TRANSPORTATION SENIOR SERGEANT
88Z50

Exhibit Dates: 1/90–10/92.

Career Management Field: 88 (Transportation).

Description

Supervises operation and control of movement of personnel and cargo by air, rail, motor transport, and water; prepares tactical plans and training material; evaluates transportation operations; assists in planning, coordinating, and supervising all supporting activities; prepares studies, routine and special reports, and records on transportation operations; supervises personnel and technical operations. NOTE: May have progressed to 88Z50 from 88M40 (Motor Transport Operator), 88N40 (Traffic Management Coordinator), or 88H40 (Cargo Specialist).

Recommendation

In the lower-division baccalaureate/associate degree category, 9 semester hours in transportation operations, 3 in records administration, and 3 in report writing. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, and 3 for field experience in education (5/76).

MOS-88Z-002

TRANSPORTATION SENIOR SERGEANT
88Z50

Exhibit Dates: 11/92–Present.

Career Management Field: 88 (Transportation).

Description

Supervises operation and control of movement of personnel and cargo by air, rail, motor transport, and water; prepares and distributes reports of operations; evaluates transportation operations; manages technical operations and supervises management coordinators or terminal operations coordinators; assists in providing staff supervision, policy, and guidance relating to movement of both personnel and cargo; assists in coordinating operations, training, administration, and communications activity; may also serve as operations sergeant, transportation supervisor, first sergeant, or sergeant major; serves more as a manager than as a supervisor in human resources management. NOTE: May have progressed to 88Z50 from 88M40 (Motor Transport Operator), 88N40 (Traffic Management Coordinator), or 88H40 (Cargo Specialist).

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in transportation operations, 3 in records and information management, 3 in personnel supervision, and 3 in report writing. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in organizational management, 3 in human resource management, and 3 in transportation management; if paygrade E-9 has been attained, additional credit may be granted as follows: 3 semester hours in management problems and 3 in communication techniques for managers (11/92).

MOS-91A-002

MEDICAL SPECIALIST
91A10
91A20

Exhibit Dates: 1/90–12/91. Effective 12/91, MOS 91A was discontinued, and its duties were transferred into MOS 91B, Medical Specialist.

Career Management Field: 91 (Medical).

Description

Summary: Administers emergency medical treatment to battlefield casualties; assists with outpatient care and treatment; assists with inpatient care and treatment under supervision of physician, nurse, physician's assistant, or non-commissioned officer. **Skill Level 10:** Administers emergency treatment in the field; assists with outpatient and inpatient care; maintains health records and clinical files; assists with nursing care of patients including medical examinations; takes and records temperature, pulse, respiration, and blood pressure; applies and removes surgical, wound, or skin dressings; collects and prepares specimens for analysis; assists in clinic and dispensary; performs routine admission tests; administers immunizations; assists with treatment of patients with common diseases; provides emergency medical care; surveys and sorts casualties; determines requirements for and administers emergency treatment; assists with triage of mass casualties; performs duties related to emergency care. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; manages casualties until admission to medical facility; performs sorting and screening procedures on battlefield or in dispensaries or clinics; reads and interprets medical tags or records.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in fundamentals of nursing, 3 in emergency nursing procedures, 3 in first aid, and 3 for an internship in emergency nursing procedures. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90–9/91 only) (9/85).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in fundamentals of nursing, 3 in emergency nursing procedures, 3 in first aid, 6 for an internship in emergency nursing procedures, and 1 in principles of administration (9/85).

MOS-91A-003

MEDICAL EQUIPMENT REPAIRER
91A10
91A20
91A30
91A40
91A50

Exhibit Dates: Pending Evaluation. 8/94–Present.

MOS-91B-004

MEDICAL NCO
91B20
91B30
91B40
91B50

Exhibit Dates: 1/90–8/91.

Career Management Field: 91 (Medical).

Description

Summary: Supervises field and clinical medical facilities; assists with technical and administrative management of medical treatment facilities under supervision of physician, nurse, or physician's assistants; administers emergency and routine outpatient medical treatment to battle and nonbattle casualties; assists with outpatient care and treatment. **Skill Level 20:** Able to perform the duties of 91A10 or 91A20, Medical Specialist; administers emergency and routine medical treatment to casualties including minor surgery and IV fluid administration; assists with outpatient care and treatment and supervises outpatient facilities under the supervision of a physician, nurse, or physician's assistant; establishes priorities for medical emergency care; stabilizes patients and accompanies them to medical facilities; provides guidance and supervision to subordinates. **NOTE:** May have progressed to 91B20 from 91A10 or 91A20, Medical Specialist. **Skill Level 30:** Able to perform the duties required for skill level 20 of MOS 91B or MOS 91A, Medical Specialist; supervises activities in dispensaries, large clinics, and field medical services; coordinates activities of clinic with medical treatment facility; supervises ordering of supplies; determines personnel requirements and conducts training programs. **NOTE:** May have progressed to 91B30 from 91B20 or 91A20, Medical Specialist. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises paraprofessional medical service activities in large fixed and mobile treatment facilities; coordinates activities of wards, clinics, and combined medical care facilities; maintains intelligence information and records. **Skill Level 50:** Able to perform the duties required for skill level 40 of MOS 91B and MOS 42C, Orthotic Specialist, and skill level 50 of MOS 91C, Practical Nurse; serves as the principal noncommissioned officer of staff sections, hospitals, other medical facilities, or service teams; serves on special boards and councils incident to medical service activities; supervises general administrative functions in a medical or treatment facility; supervises activities within the Army medical department or multifunctional medical staff activities; assists command surgeon in technical supervision of subordinate medical activities; evaluates personnel and the operational effectiveness of medical facilities; advises superiors on medical administrative matters; keeps official records and patient files; establishes report control systems; prepares periodic and special reports concerning assigned personnel, patients, and medical care and treatment; makes recommendations for improving working procedures and conditions; evaluates training programs and requirements; determines requirements and adequacy of medical service supporting elements such as ambulance, supply, and transportation. **NOTE:** May have progressed to 91B50 from 91B40, 42C40 (Orthotic Specialist), or 91C50 (Practical Nurse).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in fundamentals of nursing, 6 in emergency nursing procedures, 3 in first aid, 3 for an internship in emergency nursing procedures, and 3 in personnel supervision (9/85).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in fundamen-

tal of nursing, 6 in emergency nursing procedures, 3 in first aid, 3 for an internship in emergency nursing procedures, 3 in personnel supervision, 3 in supply management, and 1 in methods of instruction (9/85).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in fundamentals of nursing, 6 in emergency nursing procedures, 3 in first aid, 3 for an internship in emergency nursing procedures, 3 in personnel supervision, 3 in supply management, and 1 in methods of instruction. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in patient care administration (9/85).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in fundamentals of nursing, 6 in emergency nursing procedures, 3 in first aid, 3 for an internship in emergency nursing procedures, 3 in personnel supervision, 3 in supply management, and 1 in methods of instruction. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in patient care administration, 3 in personnel management, and 3 in hospital administration (9/85).

MOS-91B-005

MEDICAL SPECIALIST
91B10
91B20
91B30
91B40
91B50

Exhibit Dates: 8/91–7/94.

Career Management Field: 91 (Medical).

Description

Summary: Supervises field and clinical medical facilities; assists with technical and administrative management of medical treatment facilities under supervision of physician, nurse, or physician's assistant; administers emergency and routine outpatient medical treatment to battle and nonbattle casualties; assists with outpatient care and treatment. **Skill Level 10:** Administers emergency treatment in the field; assists with outpatient and inpatient care; maintains health records and clinical files; assists with nursing care of patients including medical examinations; takes and records temperature, pulse, respiration, and blood pressure; applies and removes surgical, wound, or skin dressings; collects and prepares specimens for analysis; assists in clinic and dispensary; performs routine admission tests; administers immunizations; assists with treatment of patients with common diseases; provides emergency medical care; surveys and sorts casualties; determines requirements for and administers emergency treatment; assists with triage of mass casualties; performs duties related to emergency care. **Skill Level 20:** Able to perform the duties required for Skill Level 10; administers emergency and routine medical treatment to casualties including minor surgery and IV fluid administration; assists with outpatient care and supervises outpatient facilities under the supervision of a physician, nurse, or physician's assistant; establishes priorities for medical emergency care; stabilizes patients and accompanies them to medical facilities; provides guidance and supervision to subordinates. **Skill Level 30:**

Able to perform the duties required for Skill Level 20; supervises activities in dispensaries, large clinics, and field medical services; coordinates activities of clinic with medical treatment facility; supervises ordering of supplies, determines personnel requirements; conducts training programs. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises paraprofessional medical service activities in large fixed and mobile treatment facilities; coordinates activities of wards, clinics, and combined medical care facilities; maintains intelligence information and records. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as the principal noncommissioned officer of staff sections, hospitals, other medical facilities or service teams; serves on special boards and councils incident to medical service activities; supervises general administrative functions in a medical or treatment facility; supervises activities within the Army medical department or multifunctional medical staff activities; assists command surgeon in technical supervision of subordinate activities; evaluates personnel and the operational effectiveness of medical facilities; advises superiors on medical administrative matters; keeps official records and patient files; establishes report control systems; prepares periodic and special reports concerning assigned personnel, patients, and medical care and treatment; makes recommendations for improving working procedures and conditions; evaluates training programs and requirements; determines requirements and adequacy of medical service supporting elements such as ambulance, supply, and transportation.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in fundamentals of nursing, 3 in basic medical emergency procedures, and 3 for field experience in medical emergency procedures. (NOTE: This recommendation for skill level 10 is valid for the dates 8/91-9/91 only) (6/92).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in fundamentals of nursing, 3 in basic medical emergency procedures, 4 for field experience in medical emergency procedures, and 3 in personnel supervision (6/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in fundamentals of nursing, 3 in basic medical emergency procedures, 5 for field experience in medical emergency procedures, 3 in personnel supervision, and 2 in records and information management (6/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in fundamentals of nursing, 3 in basic medical emergency procedures, 5 for field experience in medical emergency procedures, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (6/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in fundamen-

tal of nursing, 3 in basic medical emergency procedures, 5 for field experience in medical emergency procedures, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management. If paygrade E-9 has been attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (6/92).

MOS-91B-006

MEDICAL SPECIALIST

91B10

91B20

91B30

91B40

91B50

Exhibit Dates: Pending Evaluation. 8/94–Present.

MOS-91C-004

PRACTICAL NURSE

91C20

91C30

91C40

91C50

Exhibit Dates: 1/90–Present.

Career Management Field: 91 (Medical).

Description

Summary: Supervises or performs preventive therapeutic and emergency nursing care under the supervision of a physician or registered nurse. *Skill Level 20:* Able to perform the duties required for skill level 10 or skill level 20 of MOS 91A (Medical Specialist); assists with all levels of patient administration; prepares and maintains clinical records; reads patient charts and diagnostic reports and makes entries in medical records; requisitions, receives, packs, unpacks, stores, and safeguards clinical equipment and supplies; operates clinical equipment and maintains records; ensures maximum patient hygiene and safety; assists with providing emergency medical treatment and management; interprets and carries out nursing care plans; cares for patients of all ages with common diseases and minor injuries and those who are seriously, chronically, and acutely ill; assists during labor and childbirth; assesses condition of newborns; assists and teaches mothers the principles of infant care; prepares and administers prescribed medication; obtains and prepares samples and specimens for laboratory cultures and analysis; administers intravenous fluids; performs traction care; prepares patients for surgery and assists with transportation; assists with maintenance of nosogastric tubes; cares for patients with asthma, pneumonia, or bronchitis with oxygen therapy, bladder catheterization, colostomy irrigation, and intravenous therapy procedures; carefully observes patients for signs of problems such as dehydration, mental stress, and life-threatening symptoms; obtains appropriate admission data and assists with patient transfer and discharge. This specialty has been approved by the state of Texas as a practical nursing program and graduates must pass the state practical nursing exam to practice. NOTE: May have progressed to 91C20 from 91A10 or 91A20 (Medical Specialist). *Skill Level 30:* Able to perform the duties

required for Skill Level 20; performs advanced nursing procedures and provides technical guidance and advice to subordinates; manages small wards and provides nursing care leadership. *Skill Level 40:* Able to perform the duties required for Skill Level 30; manages large or multiward units; prepares nursing care plans and supervises implementation of these plans; conducts in-service programs. *Skill Level 50:* Able to perform the duties required for Skill Level 40; advises and assists professional staff in personnel matters; develops and evaluates training programs; manages supplies and equipment stores; establishes priorities; distributes work load and assigns personnel; compiles management data; inspects organizational activities, observes discrepancies, and initiates corrective action.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 12 semester hours for clinical nursing experience, 8 in medical-surgical nursing, 4 in anatomy and physiology, 3 in maternal and child nursing, 3 in environmental health, 2 in theory and practice of patient care, 2 in pharmacology, 1 in nutrition, 1 in preventive medicine, and 1 in psychiatric nursing. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (9/85).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 12 semester hours for clinical nursing experience, 8 in medical-surgical nursing, 4 in anatomy and physiology, 3 in maternal and child nursing, 3 in environmental health, 2 in theory and practice of patient care, 2 in pharmacology, 1 in nutrition, 1 in preventive medicine, 1 in psychiatric nursing, 3 in patient care, and 3 in introduction to management. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (9/85).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours for clinical nursing experience, 8 in medical-surgical nursing, 4 in anatomy and physiology, 3 in maternal and child nursing, 3 in environmental health, 2 in theory and practice of patient care, 2 in pharmacology, 1 in nutrition, 1 in preventive medicine, 1 in psychiatric nursing, 3 in patient care, and 3 in introduction to management. In the upper-division baccalaureate category, 3 semester hours in nursing care management (9/85).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 12 semester hours for clinical nursing experience, 8 in medical-surgical nursing, 4 in anatomy and physiology, 3 in maternal and child nursing, 3 in environmental health, 2 in theory and practice of patient care, 2 in pharmacology, 1 in nutrition, 1 in preventive medicine, 1 in psychiatric nursing, 3 in patient care, and 3 in introduction to management. In the upper-division baccalaureate category, 3 semester hours in nursing care management and 3 in administration (9/85).

MOS-91D-003

OPERATING ROOM SPECIALIST

91D10

91D20

91D30

91D40

91D50

Exhibit Dates: 1/90-7/94.

Career Management Field: 91 (Medical).

Description

Summary: Under the supervision of a registered nurse, supervises or assists in preparation and issue of sterile medical supplies and special equipment or prepares patient and operating suite for surgical procedures and assists during surgery. **Skill Level 10:** Under close supervision, prepares and issues central material supplies and equipment, including sterile and nonsterile solutions, surgical packs, and instruments; performs operating room duties, including transporting, positioning, draping, and skin preparation of patient; circulates and/or scrubs to assist in minor operative procedures; collects and maintains records of specimens; maintains a record of items and inventories items after surgery is performed; applies dressings. **Skill Level 20:** Able to perform the duties required for Skill Level 10; assists in supervision, guidance, and training of subordinates; maintains and operates highly technical surgical equipment; assists in surgical procedures; prepares tissue exam and culture slips; maintains emergency equipment; assists with cardiopulmonary resuscitation; inspects operating room to ensure clean, safe, and organized environment. **Skill Level 30:** Able to perform the duties required for Skill Level 20; manages central material service; supervises maintenance of operating room equipment; supervises the requisitioning, storing, and issuing of supplies; manages the operating room suite including the assignment of personnel; supervises, trains, and evaluates subordinates; establishes work priorities; organizes work schedules; assigns duties; determines stock level of supplies and equipment. **Skill Level 40:** Able to perform the duties required for Skill Level 30; administers central material service in large hospitals; supervises subordinates and activities of central material service and operating rooms; advises and assists professional staff in clinical, fiscal, technical, and administrative matters; coordinates the activities of the operating room and central material service with other elements of the medical treatment facility; compiles and evaluates management data and personnel requirements. **Skill Level 50:** Able to perform the duties required for Skill Level 40; assists with management of operating room suite in large hospital.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic principles of operating room procedures (includes operating room orientation and technique, microbiology, and surgical terminology), 3 in surgical basic sciences (anatomy and physiology in relation to surgical approach to disease and injury), and 8 for a practicum in operating room techniques and procedures. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/85).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic principles of operating room procedures (includes operating room orientation and technique, microbiology, and surgical terminology), 3 in surgical basic sciences (anatomy and physiology in relation to surgical approach to disease and injury), and 8 for a practicum in operating room techniques and procedures (9/85).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic principles of operating room procedures (includes operating room orientation and technique, microbiology, and surgical terminology), 3 in surgical basic sciences (anatomy and physiology in relation to the surgical approach to disease and injury), 3 in personnel supervision, and 8 for a practicum in operating room techniques and procedures (9/85).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic principles of operating room procedures (includes operating room orientation and technique, microbiology, and surgical terminology), 3 in surgical basic sciences (anatomy and physiology in relation to the surgical approach to disease and injury), 3 in personnel supervision, 3 for field experience in management, and 8 for a practicum in operating room techniques and procedures. In the upper-division baccalaureate category, credit in patient care administration and health facility management on the basis of institutional evaluation (9/85).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic principles of operating room procedures (includes operating room orientation techniques, microbiology, and surgical terminology), 3 in surgical basic sciences (anatomy and physiology in relation to the surgical approach to disease and injury), 3 in personnel supervision, 3 for field experience in management, and 8 for a practicum in operating room techniques and procedures. In the upper-division baccalaureate category, 3 semester hours in personnel management and credit in patient care administration and health facility management on the basis of institutional evaluation (9/85).

MOS-91D-004

OPERATING ROOM SPECIALIST

91D10

91D20

91D30

91D40

Exhibit Dates: Pending Evaluation. 8/94-Present.

MOS-91E-002

DENTAL SPECIALIST

91E10

91E20

91E30

91E40

91E50

Exhibit Dates: 1/90-3/92.

Career Management Field: 91 (Medical), subfield 911 (Dental).

Description

Summary: Assists in managing a dental facility or assists dentist in preventing, examining, and treating diseases of the teeth and oral region. **Skill Level 10:** Assists dentist in dental care and treatment; protects patient from excessive exposure to ionizing radiation; exposes and mounts bitewing, periapical, and occlusal radiographs using bisecting angle and long-cone paralleling techniques; exposes extraoral panoramic radiographs; prepares developer and

fixer solutions; prepares equipment and materials to measure and mix such commonly used permanent and nonpermanent restorative materials as dental amalgam, composite and unfilled acrylic resins, zinc oxide and eugenol materials, cavity liners and bases, intermediate restorative materials, and zinc phosphate cement; prepares equipment and materials to measure and mix commonly-used impression materials and gypsum products, including irreversible hydrocolloid, polysulfide impression material, plaster of Paris, and artificial stone; fabricates casts from preliminary impressions; prepares and maintains dental chair, unit, and light; sharpens dental instruments; prepares instrument setups for commonly performed dental procedures; identifies, selects, and passes to dentist appropriate instruments for dental treatment procedures in the oral surgical, oral diagnostic, endodontic, restorative, periodontic, pedodontic, orthodontic, and prosthodontic specialties; performs resuscitative procedures and operates resuscitative equipment; schedules dental appointments; maintains patient records and records information and data using authorized symbols and abbreviations; applies aseptic techniques in cleaning, packaging, sterilizing, and storing dental instruments, equipment, and supplies. **Skill Level 20:** Able to perform the duties required for Skill Level 10; serves as a dental hygienist; selects and prepares dental hand pieces, contra-angles, ultrasonic equipment, solutions, and other materials to perform oral prophylaxis; applies disclosing solutions; assists dentists in carrying out oral disease control programs including individual and group patient education and motivation; removes anatomical and acquired stains, calculus, and bacterial plaque from teeth, using hand instruments, ultrasonic equipment, dental floss, and other adjuncts; polishes teeth with abrasives; applies topical fluoride solutions for prevention of dental caries; applies pit and fissure sealants; records information on abnormal appearance and characteristics of the tissues of teeth and oral region; refers patient to dentist for consultation and treatment; performs user maintenance on hand instruments, contra-angles, and ultrasonic equipment. **Skill Level 30:** Able to perform the duties required for Skill Level 20; performs reversible dental procedures under the direct supervision of a dentist; assists in managing a small dental facility; performs diagnostic procedures such as vitality tests, diet analysis, and nutritional consultation; exposes and develops special intraoral and extraoral radiographs; isolates operative site by placement of rubber dam; select and applies matrix bands and wedges; inserts, condenses, carves, polishes, and finishes various restorations; assists dentist in treating pericoronitis and local osteitis; removes sutures; manages surgical patient preoperatively and postoperatively; makes preliminary impressions; isolates teeth for endodontic treatment; establishes stock level for supplies and equipment; orders, stores, and issues supplies. **Skill Level 40:** Able to perform the duties required for Skill Level 30; assists in managing medium-sized dental facility; assists dentist in performing complex dental procedures. **Skill Level 50:** Able to perform the duties required for skill level 40 of MOS 91E or 42D (Dental Laboratory Specialist); assists in managing a dental clinic, dental laboratory, or dental organization; normally supervises from 20 to 120 subordinates; inspects dental facilities to assure cleanliness, safety, and comfort;

assists dentists in analyzing clinical and laboratory operations to ensure efficient utilization of personnel and equipment; supervises maintenance of administrative and professional dental files and technical library; reviews and consolidates technical, administrative, and personnel reports; coordinates the activities of dental units; provides technical assistance in planning and staffing new facilities and in modifying existing facilities; plans, schedules, coordinates, and supervises dental specialty training.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 8 semester hours in clinical training (dental assistant), 3 in chairside assisting, 3 in dental radiology, 2 in basic dental science, and 1 in emergencies. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 8 semester hours in clinical training (dental assistant), 8 in clinical training (dental hygienist), 3 in chairside assisting, 3 in dental radiology, 3 in associated dental science, 3 in dental materials, 2 in basic dental science, 2 in dental health, and 1 in emergencies (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in clinical training (dental assistant), 8 in clinical training (dental hygienist), 8 in clinical training (dental therapy assistant), 6 in dental materials, 4 in dental health, 3 in chairside assisting, 3 in dental radiology, 3 in associated dental science, 2 in basic dental science, 2 in related dental science, 1 in emergencies, and 1 in four-handed dentistry (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in clinical training (dental assistant), 8 in clinical training (dental hygienist), 8 in clinical training (dental therapy assistant), 6 in dental materials, 4 in dental health, 3 in chairside assisting, 3 in dental radiology, 3 in associated dental science, 2 in basic dental science, 2 in related dental science, 1 in emergencies, and 1 in four-handed dentistry (6/77).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 8 semester hours in clinical training (dental assistant), 8 in clinical training (dental hygienist), 8 in clinical training (dental therapy assistant), 6 in dental materials, 4 in dental health, 3 in chairside assisting, 3 in dental radiology, 3 in associated dental science, 2 in basic dental science, 2 in related dental science, 1 in emergencies, 1 in four-handed dentistry, 3 in personnel supervision, 2 in health care management, and 2 for field experience in management (6/77).

MOS-91E-003

DENTAL SPECIALIST

91E10
91E20
91E30
91E40
91E50

Exhibit Dates: 4/92-Present.

Career Management Field: 91 (Medical).

Description

Summary: Assists in managing a dental facility or assists dentist in preventing, examining, and treating diseases of the teeth and oral region. **Skill Level 10:** Assists dentist in dental care and treatment; protects patient from excessive exposure to ionizing radiation; exposes and mounts bitewing, periapical, and occlusal radiographs using bisecting angle and long-cone paralleling techniques; exposes extraoral panoramic radiographs; prepares developer and fixer solutions; prepares equipment and materials to measure and mix such commonly used permanent and nonpermanent restorative materials as dental amalgam, composite and unfilled acrylic resins, zinc oxide and eugenol materials, cavity liners and bases, intermediate restorative materials, and zinc phosphate cement; prepares equipment and materials to measure and mix commonly used impression materials and gypsum products, including irreversible hydrocolloid, poly-sulfide impression material, plaster of Paris, and artificial stone; fabricates casts from preliminary impressions; prepares and maintains dental chair, unit, and light; sharpens dental instruments; prepares instrument setups for commonly performed dental procedures; identifies, selects, and passes to dentist appropriate instruments for dental treatment procedures in the oral surgical, oral diagnostic endodontic, restorative, periodontic, pedodontic, orthodontic, and prosthodontic specialties; performs resuscitative procedures and operates resuscitative equipment; schedules dental appointments; maintains patient records and records information and data using authorized symbols and abbreviations; applies aseptic techniques in cleaning, packaging, sterilizing, and storing dental instruments, equipment, and supplies. **Skill Level 20:** Able to perform the duties required for Skill Level 10; serves as a dental hygienist; selects and prepares dental hand pieces, contra-angles, ultrasonic equipment, solutions, and other materials to perform oral prophylaxis; applies disclosing solutions; assists dentists in carrying out oral disease control programs including individual and group patient education and motivation; removes anatomical and acquired stains, calculus, and bacterial plaque from teeth, using hand instruments, ultrasonic equipment, dental floss, and other adjuncts; polishes teeth with abrasives; applies topical fluoride solutions for prevention of dental caries; applies pit and fissure sealants; records information on abnormal appearance and characteristics of the tissues of teeth and oral region; refers patient to dentist for consultation and treatment; performs user maintenance on hand instruments, contra-angles, and ultrasonic equipment. **Skill Level 30:** Able to perform the duties required for Skill Level 20; performs reversible dental procedures under the direct supervision of a dentist; assists in managing a small dental facility; performs diagnostic procedures such as vitality tests, diet analysis, and nutritional consultation; exposes and develops special intraoral and extraoral radiographs; isolates operative site by placement of rubber dam; selects and applies matrix bands and wedges; inserts, condenses, carves, polishes and finishes various restorations; assists dentist in treating pericoronitis and local osteitis; removes sutures; manages surgical patient preoperatively and postoperatively; makes preliminary impressions; isolates teeth for endodontic treatment; establishes stock level for supplies and equipment; orders, stores,

and issues supplies. **Skill Level 40:** Able to perform the duties required for Skill Level 30; assists in managing medium-sized dental facility; assists dentist in performing complex dental procedures. **Skill Level 50:** Able to perform the duties required for skill level 40 of MOS 91E or 42D (Dental Laboratory Specialist), assists in managing a dental clinic, dental laboratory, or dental organization, normally supervises from 20 to 120 subordinates, inspects dental facilities to assure cleanliness, safety, and comfort; assists dentists in analyzing clinical and laboratory operations to ensure efficient utilization of personnel and equipment; supervises maintenance of administrative and professional dental files and technical library; reviews and consolidates technical, administrative, and personnel reports; coordinates the activities of dental units; provides technical assistance in planning and staffing new facilities and in modifying existing facilities; plans, schedules, coordinates, and supervises dental specialty training.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in dental radiography, 3 in chairside dental assisting, 4 in dental assisting clinical practice, and 3 in personnel supervision; if additional skill identifier was X2, Preventive Dentistry Specialty, 4 semester hours in dental hygiene clinical practice. (NOTE: This recommendation for skill level 20 is valid for the dates 4/92-2/95 only) (4/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in dental radiography, 3 in chairside dental assisting, 5 in dental assisting clinical practice, 3 in personnel supervision, and 2 in records and information management; if additional skill identifier was X2, Preventive Dentistry Specialty, 5 semester hours in dental hygiene clinical practice (4/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in dental radiography, 3 in chairside dental assisting, 6 in dental assisting clinical practice, 3 in personnel supervision, and 2 in records and information management; if additional skill identifier was X2, Preventive Dentistry Specialty, 6 semester hours in dental hygiene clinical practice. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (4/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 2 semester hours in dental radiography, 3 in chairside dental assisting, 6 in dental assisting clinical practice, 3 in personnel supervision, and 2 in records and information management; if additional skill identifier was X2, Preventive Dentistry Specialty, 6 semester hours in dental hygiene clinical practice. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (4/92).

MOS-91F-002**PSYCHIATRIC SPECIALIST**

91F10
91F20
91F30
91F40

Exhibit Dates: 1/90-3/92.

Career Management Field: 91 (Medical), subfield 912 (Patient Care).

Description

Summary: Assists in the care and treatment of psychiatric, drug, and alcohol patients and in the management of a psychiatric facility under the supervision of a psychiatric nurse. *Skill Level 10:* Able to perform the duties of 91B10 (Medical Specialist); assists with diagnostic procedures; observes, records, and reports significant patient behavior; identifies and responds to psychopathological behaviors; provides intensive care for patients who are receiving special treatment; participates in individual and group therapies and somatic therapy; safeguards confidentiality of patients' clinical records and reports; orients patients to the services and routines of the treatment facility; supervises personal hygiene of patients and assists them in meeting their physical needs; accompanies patients to appointments and therapeutic activities within treatment facility and local community; functions as a member of electroconvulsive therapy team; assists with general nursing care activities, measuring and recording vital signs, administering prescribed medication, and collecting and labeling specimens. *Skill Level 20:* Able to perform the duties required for Skill Level 10; dispenses medication; supervises such patient activities, as physical reconditioning, occupational therapy, recreational therapy, and group therapy. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists with management of psychiatric ward; organizes work schedules and assigns duties; evaluates personnel; requisitions, stores, and issues supplies and equipment; assists with in-service training programs; serves as a group facilitator under professional supervision. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists with management of psychiatric nursing activity; advises and assists professional staff in technical, administrative, personnel, and fiscal matters; establishes work priorities; compiles management data; inspects facility to ensure a comfortable, safe, and sanitary environment; coordinates activities with other elements of medical treatment facility; reviews and consolidates technical and administrative reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in psychiatric nursing, 3 in psychiatric therapies, 3 for clinical experience in mental health, 2 in abnormal psychology, and 2 in human development. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in psychiatric nursing, 3 in psychiatric therapies, 5 for clinical experience in mental health, 2 in abnormal psychology, and 2 in human development (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 5 semester hours for clinical

experience in mental health, 3 in psychiatric nursing, 3 in psychiatric therapies, 3 in psychiatric ward management, 3 in personnel supervision, 2 in abnormal psychology, and 2 in human development (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 5 semester hours for clinical experience in mental health, 3 in psychiatric nursing, 3 in psychiatric therapies, 3 in psychiatric ward management, 3 in personnel supervision, 2 in abnormal psychology, and 2 in human development. In the upper-division baccalaureate category, credit in patient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS-91F-003**PSYCHIATRIC SPECIALIST**

91F10
91F20
91F30
91F40

Exhibit Dates: 4/92-Present.

Career Management Field: 91 (Medical).

Description

Summary: Assists in the care and treatment of psychiatric, drug, and alcohol patients and in the management of a psychiatric facility under the supervision of a physician or psychiatric nurse. *Skill Level 10:* Assists with diagnostic procedures; observes, records, and reports significant patient behavior; identifies and responds to psychopathological behaviors; provides intensive care for patients who are receiving special treatment; participates in individual and group therapies and somatic therapy; safeguards confidentiality of patients' clinical records and reports; orients patients to the services and routines of the treatment facility; supervises personal hygiene of patients and assists them in meeting their physical needs; accompanies patients to appointments and therapeutic activities within treatment facility and local community; functions as a member of electroconvulsive therapy team; assists with general nursing care activities, measuring and recording vital signs, and collecting and labeling specimens. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises such patient activities as physical reconditioning, occupational therapy, recreational therapy, and group therapy. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists with management of psychiatric ward; organizes work schedules and assigns duties; evaluates personnel; requisitions, stores, and issues supplies and equipment; assists with in-service training programs; serves as a group facilitator under professional supervision. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists with management of psychiatric nursing activity; advises and assists professional staff in technical, administrative, personnel, and fiscal matters; establishes work priorities; compiles management data; inspects facility to ensure a comfortable, safe, and sanitary environment; coordinates activities with other elements of medical treatment facility; reviews and consolidates technical and administrative reports.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to human services, 4 in human services clinical practice, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 4/92-2/95 only) (4/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to human services, 5 in human services clinical practice, 3 in personnel supervision, and 2 in records and information management (4/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to human services, 6 in human services clinical practice, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (4/92).

MOS-91G-002**BEHAVIORAL SCIENCE SPECIALIST**

91G10
91G20
91G30
91G40

Exhibit Dates: 1/90-3/92.

Career Management Field: 91 (Medical), subfield 912 (Patient Care).

Description

Summary: Under professional supervision, assists with management of mental health activity or obtains social case histories; collects basic psychological data; performs counseling functions. *Skill Level 10:* Able to perform the duties required for skill level 10 of MOS 91B (Medical Specialist); interviews clients; conducts collateral interviews and screens records; administers and scores intelligence tests under supervision; assists in determining client need for referral to a professional; records psychosocial data and behavior observations; orients and refers clients to military, civilian, and agency resources; prepares and presents cases for staffings and conferences; requests and transmits client records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; under professional supervision, provides supportive counseling and follow-up service to individuals experiencing a wide range of social or emotional problems; assists with group counseling and therapy sessions; leads discussion groups; assists in determination of need for hospitalization; under supervision, administers and scores achievement tests, objective personality tests, and tests of organic impairment and records the results; assists patients with discharge planning; consults on management of individual behavioral problems; assists professional staff in setting up home health care programs and makes follow-up home visits; gathers statistical data; establishes and maintains clinical and general office files. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides advice and limited technical guidance to subordinates; provides supportive counseling and crisis intervention services to clients; assists in staffing and coordination of highly complex

cases, collects and organizes research data and makes statistical computations; assists in analysis of research data and report writing; compiles case load data and assigns clients to specific staff members; evaluates manpower requirements; prepares administrative reports; requisitions, stores, and issues supplies, equipment, publications, and training aids; develops work procedures and practices; prepares and conducts in-service training programs. *Skill Level 40:* Able to perform the duties required for Skill Level 30; under supervision, administers and records thematic projective tests; assists in determining program and management objectives and procedures; establishes work priorities and work schedules; assigns duties and instructs subordinates in work techniques and procedures; prepares and counsels personnel and prepares evaluation reports; coordinates activity of facility with related elements of the medical treatment facility; advises and assists professionals with fiscal, technical, and administrative matters; establishes stock level for supplies and equipment.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours in clinical psychology and counseling, 3 in psychology, 3 in human relations, 1 in sociology, and 1 in psychological testing. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in clinical psychology and counseling, 3 in psychology, 3 in human relations, 3 in psychological testing, and 1 in sociology (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in clinical psychology and counseling, 3 in psychology, 2 in human relations, 3 in psychological testing, 2 in personnel supervision, and 1 in sociology. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in clinical psychology and counseling, 4 in psychological testing, 3 in psychology, 3 in human relations, 3 in personnel supervision, 3 in principles of administration, and 1 in sociology. In the upper-division baccalaureate category, credit in patient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS-91G-003

BEHAVIORAL SCIENCE SPECIALIST

91G10
91G20
91G30
91G40

Exhibit Dates: 4/92-Present.

Career Management Field: 91 (Medical).

Description

Summary: Under professional supervision, assists with management of outpatient mental health clients; obtains social case histories; collects basic psychological data; counsels. *Skill Level 10:* Interviews clients; conducts collateral

interviews; administers and scores intelligence tests under supervision; assists in determining client need for referral to a professional; records psychosocial data and behavior observations; orients and refers clients to military, civilian, and agency resources; prepares and presents cases for staffings and conferences; requests and transmits client records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; under professional supervision, provides supportive counseling and follow-up service to individuals experiencing a wide range of social or emotional problems; assists with group counseling and therapy sessions; leads discussion groups; assists in determining need for hospitalization; under supervision, administers and scores achievement tests, objective personality tests, and tests of organic impairment and records the results; assists patients with discharge planning; consults on management of individual behavioral problems; assists professional staff in setting up home health care programs and makes follow-up home visits; gathers statistical data; establishes and maintains clinical and general office files. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides advice and limited technical guidance to subordinates; provides supportive counseling and crisis intervention services to clients; collects and organizes research data and makes statistical computations; assists in analysis of research data and report writing; compiles case load data and assigns clients to specific staff members; evaluates manpower requirements; prepares administrative reports; requisitions, stores, and issues supplies, equipment, publications, and training aids; develops work procedures and practices; prepares and conducts in-service training programs. *Skill Level 40:* Able to perform the duties required for Skill Level 30; under supervision, administers and records thematic projective tests; assists in determining program and management objectives and procedures; establishes work priorities and work schedules; assigns duties and instructs subordinates in work techniques and procedures; prepares and counsels personnel and prepares evaluation reports; coordinates activity of facility with related elements of the medical treatment facility; advises and assists professionals with fiscal, technical, and administrative matters; establishes stock level for supplies and equipment.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to human services, 4 in human services clinical practice, 3 in behavior modification techniques, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 4/92-2/95 only) (4/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to human services, 5 in human services clinical practice, 3 in behavior modification techniques, 3 in personnel supervision, and 2 in records and information management (4/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to human services, 6 in human services

clinical practice, 3 in behavior modification techniques, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (4/92).

MOS-91H-002

ORTHOPEDIC SPECIALIST

91H10
91H20
91H30
91H40

Exhibit Dates: 1/90-3/92.

Career Management Field: 91 (Medical), subfield 912 (Patient Care).

Description

Summary: Assists physician in treating patients with orthopedic conditions and injuries or assists in managing an orthopedic clinic. *Skill Level 10:* Able to perform the duties required for skill level 10 of MOS 91B (Medical Specialist); under close supervision of a physician, treats orthopedic patients; may perform the duties required for skill level 20. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists with minor surgery in orthopedic clinic; prepares treatment area and patient for surgery or treatment; transfers patients with unstable fractures to fracture table or other work surface; operates fracture table and assists in positioning patient; changes dressings and bandages; removes sutures; cleans and performs minor debridement of open wounds; fabricates, modifies, and removes short leg, long leg, arm casts, and hip and shoulder spica; rolls or manually shapes plaster around area to be immobilized; constructs and applies plaster and mechanized splints; makes support bandages and slings; instructs patients regarding care and danger of casts; assists in applying and adjusting skeletal traction. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance to subordinates. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in managing an orthopedic clinic; organizes work schedules; assigns duties; instructs subordinates in work techniques and procedures; evaluates personnel performance and prepares evaluation reports; establishes safety procedures; inspects work area to ensure a safe working environment; supervises operator maintenance on assigned equipment; requisitions, stores, and issues supplies and equipment; reviews, consolidates, and prepares technical, personnel, and administrative reports; coordinates activities of orthopedic clinic with other elements of treatment facility; assists physician with technical, personnel, and fiscal matters.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, credit in anatomy, physiology, principles of orthopedics, orthopedic methods and materials, and clinical application of orthopedic principles on the basis of institutional evaluation. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 5 semester hours in clinical application of orthopedic principles, 4 in principles of orthopedics, 4 in orthopedic methods

and materials, 3 in clinical orthopedic assisting, 3 in anatomy, and 1 in physiology (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 5 semester hours in clinical application of orthopedic principles, 4 in principles of orthopedics, 4 in orthopedic methods and materials, 3 in clinical orthopedic assisting, 3 in anatomy, and 1 in physiology (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 5 semester hours in clinical application of orthopedic principles, 4 in principles of orthopedics, 4 in orthopedic methods and materials, 3 in clinical orthopedic assisting, 3 in anatomy, 3 in personnel supervision, 2 in communication skills, 2 in principles of management, 1 in health care management, 1 in physiology, and credit in medical facility management on the basis of institutional evaluation (6/77).

MOS-91H-003

ORTHOPEDIC SPECIALIST

91H10

91H20

91H30

91H40

Exhibit Dates: 4/92–12/94. (Effective 12/94, MOS 91H was discontinued, and its duties were incorporated into MOS 91B).

Career Management Field: 91 (Medical).

Description

Summary: Assists physician in treating patients with orthopedic conditions and injuries or assists in managing an orthopedic clinic. **Skill Level 10:** Assists with minor surgery in orthopedic clinic; prepares treatment area and patient for surgery or treatment; transfers patients with unstable fractures to fracture table or other work surface; operates fracture table and assists in positioning patient; changes dressings and bandages; removes sutures; cleans and performs minor debridement of open wounds; fabricates, modifies, and removes casts; applies plaster and mechanized splints; makes support bandages and slings; instructs patients regarding care and danger of casts; assists in applying and adjusting skeletal traction. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides supervision and technical guidance to subordinates. **Skill Level 30:** Able to perform the duties required for Skill Level 20; assists in managing an orthopedic clinic; organizes work schedules; assigns duties; instructs subordinates in work techniques and procedures; evaluates personnel performance and prepares evaluation reports; establishes safety procedures; inspects work area to ensure a safe working environment; supervises operator maintenance on assigned equipment; requisitions, stores, and issues supplies and equipment; reviews, consolidates, and prepares technical, personnel, and administrative reports; coordinates activities of orthopedic clinic with other elements of treatment facility; assists physician with technical, personnel, and fiscal matters. **Skill Level 40:** Able to perform the duties required for Skill Level 30; prepares, conducts, and supervises continuing education and training; assists with operations to ensure compliance with Joint Commission Accreditation Hospital standards.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in orthopedic methods and materials, 4 in orthopedics clinical experience, and 3 in personnel supervision (4/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in orthopedic methods and materials, 5 in orthopedics clinical experience, 3 in personnel supervision, and 2 in records and information management (4/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in orthopedic methods and materials, 6 in orthopedics clinical experience, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (4/92).

MOS-91J-002

PHYSICAL THERAPY SPECIALIST

91J10

91J20

91J30

91J40

Exhibit Dates: 1/90–5/92.

Career Management Field: 91 (Medical), subfield 912 (Patient Care).

Description

Summary: Under the direction of a physical therapist and following medical prescription, supervises or administers physical therapy treatment and exercises to decrease physical disabilities and to promote physical fitness of patients. **Skill Level 10:** Able to perform the duties required for skill level 10 of MOS 91B (Medical Specialist); under close supervision, administers physical therapy treatments to patients. **Skill Level 20:** Able to perform the duties required for Skill Level 10; transports, positions, and drapes patients for treatment; administers treatment involving use of heat, ice, cervical and pelvic traction, ultraviolet light, ultrasound treatment, whirlpool, hydrotherapy, therapeutic massage, electrical stimulation, and manual exercise procedures; assists in performing postural drainage; instructs and assists patients with casts in ambulation and gait training; administers progressive resistance and physical reconditioning exercises; stores and issues supplies and equipment. **Skill Level 30:** Able to perform the duties required for Skill Level 20; assists with management of medium-sized physical therapy clinic; instructs and assists patients in exercise activities; performs exercise procedures for amputees and patients with central nervous system disorders; supervises operational management of unit, including personnel, supplies, equipment, and scheduling; prepares patient and administrative reports; coordinates activities of physical therapy clinic with other elements of medical treatment facility. **Skill Level 40:** Able to perform the duties required for Skill Level 30; assists with management of large physical therapy clinic; supervises integration of segmented and diversified physical therapy programs conducted in several clinics.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours in health science. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in health science and 6 in physical therapy (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in health science, 6 in physical therapy, 2 in human relations, and 1 for field experience in management. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in health science, 6 in physical therapy, 3 in human relations, and 3 for field experience in management. In the upper-division baccalaureate category, credit in patient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS-91J-003

PHYSICAL THERAPY SPECIALIST

91J10

91J20

91J30

91J40

Exhibit Dates: 6/92–12/94. (Effective 12/94, MOS 91J was discontinued, and its duties were incorporated into MOS 91B.).

Career Management Field: 91 (Medical).

Description

Summary: Under the direction of a physical therapist and following medical prescription, supervises or administers physical therapy treatment and exercises to decrease physical disabilities and to promote physical fitness of patients. **Skill Level 10:** Transports, positions, and drapes patients for treatment; administers treatment involving use of heat, ice, cervical and pelvic traction, ultraviolet light, ultrasound treatment, whirlpool, hydrotherapy, therapeutic massage, electrical stimulation, and manual exercise procedures; assists in performing postural drainage; instructs and assists patients with casts in ambulation and gait training; administers progressive resistance and physical reconditioning exercises; stores and issues supplies and equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; assists with management of medium-sized physical therapy clinic; instructs and assists patients in exercise activities; performs exercise procedures for amputees and patients with central nervous system disorders; supervises operational management of unit, including personnel, supplies, equipment, and scheduling; prepares patient and administrative reports; coordinates activities of physical therapy clinic with other elements of medical treatment facility. **Skill Level 30:** Able to perform the duties required for Skill Level 20; controls patient flow through clinic; when appropriate, administers treatment independently; prepares budget, technical, administrative, and patient case reports; maintains supplies and equipment; recommends new equipment; assists in personnel matters. **Skill**

Level 40 Able to perform the duties required for Skill Level 30, assists with management of large physical therapy clinic; supervises integration of segmented and diversified physical therapy programs conducted in several clinics

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94)

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 5 semester hours in physical therapy clinical procedures and 3 in personnel supervision (6/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in physical therapy clinical procedures, 3 in personnel supervision, 3 in patient assessment procedures, and 2 in records and information management (6/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in physical therapy clinical procedures, 3 in personnel supervision, 3 in patient assessment procedures, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (6/92).

MOS-91K-001

MEDICAL LABORATORY SPECIALIST

91K10
91K20
91K30
91K40
91K50

Exhibit Dates: Pending Evaluation. 8/94-Present.

MOS-91L-003

OCCUPATIONAL THERAPY SPECIALIST

91L10
91L20
91L30
91L40

Exhibit Dates: 1/90-12/94. (Effective 12/94, MOS 91L was discontinued, and its duties were incorporated into MOS 91B.).

Career Management Field: 9 (Medical).

Description

Summary: Under the direction of a registered occupational therapist, assists patients in adapting skills for daily living and in work therapy activities; conducts interviews, administers tests, and assists patients with daily living activities to promote physical and mental health. *Skill Level 10:* Interviews, tests, teaches, and assists clients in occupational therapy activities; assists in evaluating test results; interprets physician's referrals to determine therapeutic strategies; arranges for and reports physiological and psychological patient responses; maintains progress records; measures, fabricates, fits, adjusts, and instructs in the use of adaptive devices; maintains equipment and supplies; maintains safe and comfortable work area. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists in administering occupational therapy programs; plans ward, clinic, and recreational activity programs and

assists with planning for home activity programs; teaches activities of daily living. *Skill Level 30:* Able to perform the duties required for Skill Level 20, assists with management of medium-sized occupational therapy clinic; prepares work schedules; instructs subordinates; evaluates personnel performance; prepares administrative and patient reports; coordinates activities of occupational therapy program; advises and assists therapist in personnel and administrative matters; maintains supply levels as needed; coordinates activities of occupational therapy clinic with other elements of the medical treatment facility. *Skill Level 40:* Able to perform the duties required for Skill Level 30, assists with management of a large occupational therapy clinic; coordinates integration of segmented and diversified occupational therapy programs conducted in several clinics; develops, supervises, and evaluates work methods and training programs; plans clinic layout; requests supporting services.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in occupational therapy skills, 3 for field experience in occupational therapy, 3 in creative arts, 3 in communication skills, and 3 in human relations. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (3/90).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in occupational therapy skills, 6 for field experience in occupational therapy, 6 in creative arts, 3 in communication skills, and 3 in human relations (3/90).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in occupational therapy skills, 6 for field experience in occupational therapy, 6 in creative arts, 3 in communication skills, 3 in human relations, 3 in principles of supervision, and 3 in patient care administration (3/90).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in occupational therapy skills, 6 for field experience in occupational therapy, 6 in creative arts, 3 in communication skills, 3 in human relations, 3 in principles of supervision, 3 in patient care administration, and 3 in educational techniques (3/90).

MOS-91M-001

HOSPITAL FOOD SERVICE SPECIALIST

91M10
91M20
91M30
91M40
91M50

Exhibit Dates: 3/90-2/95.

Career Management Field: 91 (Medical).

Description

Summary: Assists in the planning and implementation of the food service program in hospitals; prepares, cooks, and serves food to patients and staff. *Skill Level 10:* Interviews patients and family members to determine dietary status; completes dietary history and individual menu pattern; evaluates, records, and reviews patient's diet; monitors patient's food

consumption and maintains dietary records, measures, weighs, blends, and mixes various foodstuffs; roasts, fries, broils, boils, and stews meats; prepares fruits, vegetables, salads, desserts, beverages, and dairy products; bakes yeast breads, quick breads, pies, cakes, and cookies; sets up and serves regular and modified diets for patients; assembles and checks patient trays; instructs patients on modified diets to and them in food selection; maintains records as to patient food preferences and diet changes and adjusts diet menus; prepares food in accordance with instruction from dietician or physician; performs preventive maintenance on kitchen equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; modifies dietary treatments in compliance with nutrition care plan; assists in evaluating nutrition problems; completes clinical dietetic reports; performs quality assurance checks in nutrition care operations; ensures adherence to procedures, temperatures, and time periods in food preparation; adjusts individual standard diet menus; participates in planning of food service activities; conducts food acceptability studies; applies storage standards; completes food production forms and records; monitors tasks in support of patient tray service operation, including preparation, assembly, and delivery to wards. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises food production or diet therapy activities in a hospital; plans and prepares hospital menus for regular and modified diets and estimates the number of persons to be fed; schedules and supervises food preparation for compliance with dietetic requirements and for quality and quantity standards; inspects prepared food for palatability and appearance and to determine compliance with menus and recipes; inspects hospital food service facilities and corrects deficiencies; supervises procurement, storage, distribution, accounting for, and servicing of food in a hospital food service; conducts classroom and on-the-job training for subordinates. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs supervisory duties; develops, coordinates, implements, and advises on food programs; evaluates and designs improvements in food programs and training programs; assists in preparation of hospital food service budget. *Skill Level 50:* Able to perform the duties required for Skill Level 40; prepares budget and determines financial requirements; instructs military and civilian personnel; utilizes office management techniques; advises superiors on food service equipment layout and space design.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 4 semester hours in quantity food preparation and 4 in nutrition and diet therapy. (NOTE: This recommendation for skill level 10 is valid for the dates 3/90-9/91 only) (6/92).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in quantity food preparation, 6 in nutrition and diet therapy, 2 in food service operations, and 3 in personnel supervision (6/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in quantity

food preparation, 6 in nutrition and diet therapy, 4 in food service operations, 3 in personnel supervision, and 2 in records and information management (6/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in quantity food preparation, 6 in nutrition and diet therapy, 4 in food service operations, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (6/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 4 semester hours in quantity food preparation, 6 in nutrition and diet therapy, 4 in food service operations, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management; if paygrade E-9 has been attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communications techniques for managers (6/92).

MOS-91M-002

HOSPITAL FOOD SERVICE SPECIALIST

91M10

91M20

91M30

91M40

91M50

Exhibit Dates: 3/95–Present.

Career Management Field: 91 (Medical).

Description

Summary: Assists in the planning and implementation of the food service program in hospitals; prepares, cooks, and serves food to patients and staff. **Skill Level 10:** Interviews patients and family members to determine dietary status; completes dietary history and individual menu pattern; evaluates, records, and reviews patient's diet; monitors patient's food consumption and maintains dietary records; measures, weighs, blends, and mixes various foodstuffs; roasts, fries, broils, boils, and stews meats; prepares fruits, vegetables, salads, desserts, beverages, and dairy products; bakes yeast breads, quick breads, pies, cakes, and cookies; sets up and serves regular and modified diets for patients; assembles and checks patient trays; instructs patients on modified diets to aid them in food selection; maintains records as to patient food preferences and diet changes and adjusts diet menus; prepares food in accordance with instruction from dietician or physician; performs preventive maintenance on kitchen equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; modifies dietary treatments in compliance with nutrition care plan; assists in evaluating nutrition problems; completes clinical dietetic reports; performs quality assurance checks in nutrition care operations; ensures adherence to procedures, temperatures, and time periods in food preparation; adjusts individual standard diet menus; participates in planning of food service activities; conducts food acceptability studies; applies storage standards; completes

food production forms and records; monitors tasks in support of patient tray service operation, including preparation, assembly, and delivery to wards. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises food production or diet therapy activities in a hospital; plans and prepares hospital menus for regular and modified diets and estimates the number of persons to be fed; schedules and supervises food preparation for compliance with dietetic requirements and for quality and quantity standards; inspects prepared food for palatability and appearance and to determine compliance with menus and recipes; inspects hospital food service facilities and corrects deficiencies; supervises procurement, storage, distribution, accounting for, and servicing of food in a hospital food service; conducts classroom and on-the-job training for subordinates. **Skill Level 40:** Able to perform the duties required for Skill Level 30; performs supervisory duties; develops, coordinates, implements, and advises on food programs; evaluates and designs improvements in food programs and training programs; assists in preparation of hospital food service budget. **Skill Level 50:** Able to perform the duties required for Skill Level 40; prepares budget and determines financial requirements; instructs military and civilian personnel; utilizes office management techniques; advises superiors on food service equipment layout and space design.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (6/92).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (6/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in quantity food preparation, 6 in nutrition and diet therapy, 2 in food service operations, and 3 in personnel supervision (6/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in quantity food preparation, 6 in nutrition and diet therapy, 4 in food service operations, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (6/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 4 semester hours in quantity food preparation, 6 in nutrition and diet therapy, 4 in food service operations, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management; if paygrade E-9 has been attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communications techniques for managers (6/92).

MOS-91N-002

CARDIAC SPECIALIST

91N10

91N20

91N30

91N40

Exhibit Dates: 1/90–3/92.

Career Management Field: 91 (Medical), subfield 912 (Patient Care).

Description

Summary: Assists with management of cardiac clinic or performs specialized noninvasive cardiac tests and examinations. **Skill Level 10:** Able to perform the duties required for skill level 10 of MOS 91B (Medical Specialist); under close supervision, assists skill level 20 personnel. **Skill Level 20:** Able to perform the duties required for Skill Level 10; sets up, calibrates, operates, and maintains electrocardiograph, vectorcardiograph, and phonocardiograph; attaches electrodes and conducts tests according to established procedures; transmits record to physician; cuts and mounts tracing for inclusion in medical records; administers endurance tests; under supervision, performs technical examination during operation of artificial pacemaker; performs cardiopulmonary resuscitation and uses defibrillator; performs maintenance on equipment; receives, stores, and maintains supplies. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides technical guidance to subordinates. **Skill Level 40:** Able to perform the duties required for Skill Level 30; establishes priorities and work schedules; assigns duties and instructs subordinates in procedures; inspects facilities; determines personnel requirements; conducts training programs; supervises operational maintenance program of laboratory and clinical equipment; evaluates and counsels personnel; establishes stock level for supplies and equipment and supervises requisition, storage, and issue of supplies.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in cardiovascular anatomy and physiology, 3 in cardiovascular patient care, 2 in cardiovascular technology, 2 in cardiovascular electronics, 2 in physiological chemistry, and 1 in technical mathematics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 10 semester hours for a cardiovascular internship, 3 in cardiovascular anatomy and physiology, 3 in cardiovascular patient care, 2 in cardiovascular technology, 2 in cardiovascular electronics, 2 in physiological chemistry, and 1 in technical mathematics (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 10 semester hours for a cardiovascular internship, 3 in cardiovascular anatomy and physiology, 3 in cardiovascular patient care, 2 in cardiovascular technology, 2 in cardiovascular electronics, 2 in physiological chemistry, 1 in technical mathematics, and 2 in personnel supervision (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 10 semester hours for a cardiovascular internship; 3 in cardiovascular anatomy and physiology; 3 in cardiovascular patient care; 2 in cardiovascular technology; 2 in cardiovascular electronics; 2 in physiological chemistry; 1 in technical mathematics; 3 in personnel supervision; 3 in human relations; and 2 for field experience in management (6/77).

MOS-91N-003**CARDIAC SPECIALIST**

91N10
91N20
91N30
91N40

Exhibit Dates: 4/92-6/95. Effective 6/95, MOS 91N was discontinued, and its duties were incorporated into MOS 91B.

Career Management Field: 91 (Medical).

Description

Summary: Assists with management of cardiac clinic or performs specialized noninvasive cardiac tests and examinations. **Skill Level 10:** Sets up, calibrates, operates, and maintains electrocardiograph, vectorcardiograph, and phonocardiograph; attaches electrodes and conducts tests according to established procedures; transmits record to physician; cuts and mounts tracing for inclusion in medical records; administers endurance tests; under supervision, performs technical examination during operation of artificial pacemaker; performs cardiopulmonary resuscitation and uses defibrillator; performs maintenance on equipment; receives, stores, and maintains supplies. **Skill Level 20:** Able to perform the duties required for Skill Level 10; prepares hand receipts; prepares maintenance requests; requisitions equipment and supplies. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides technical guidance to subordinates; assists with supervisory duties in a cardiac clinic; organizes work schedules. **Skill Level 40:** Able to perform the duties required for Skill Level 30; establishes work priorities and work schedules; assigns duties and instructs subordinates in procedures; inspects facilities; determines personnel requirements and conducts training programs; supervises operational maintenance program of laboratory and clinical equipment; evaluates and counsels personnel; establishes stock level for supplies and equipment and supervises requisition, storage, and issue of supplies.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of cardiovascular technology, 4 in cardiovascular technology clinical practice, and 3 in personnel supervision; if additional skill identifier is Y6, Cardiac Catheterization Specialty, 4 semester hours in cardiac catheterization technology clinical practice. (NOTE: This recommendation for skill level 20 is valid for the dates 4/92-2/95 only) (4/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of cardiovascular technology, 5 in cardiovascular

technology clinical practice, 3 in personnel supervision, and 2 in records and information management; if additional skill identifier is Y6, Cardiac Catheterization Specialty, 5 semester hours in cardiac catheterization technology clinical practice (4/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of cardiovascular technology, 6 in cardiovascular technology clinical practice, 3 in personnel supervision, and 2 in records and information management; if additional skill identifier is Y6, Cardiac Catheterization Specialty, 6 semester hours in cardiac catheterization technology clinical practice. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (4/92).

MOS-91P-003**X-RAY SPECIALIST**

91P10
91P20
91P30
91P40
91P50

Exhibit Dates: 1/90-7/94.

Career Management Field: 91 (Medical).

Description

Summary: Operates or supervises the operation of fixed and portable X-ray equipment to take radiographs and to assist with treatment procedures. **Skill Level 10:** Able to perform the duties required for skill level 10 of MOS 91B (Medical Specialist); performs routine radiographic procedures; operates X-ray machines, utilizing proper exposure factors; applies radiation safety principles to protect self and patients from ionizing radiation; assists radiologists with fluoroscopic examination and simple special radiographic procedures; processes radiographic films by manual and automatic methods; performs routine patient administration including the maintenance of radiographic records. **Skill Level 20:** Able to perform the duties required for Skill Level 10; assembles radiographs for reading; performs body section, stereoscopic foreign body localization, prenatal, and pediatric radiographic procedures; performs follow-up radiographic examinations of the digestive, urogenital, respiratory, vascular, and nervous systems; takes radiographs of the extremities, trunk, and skull using portable equipment; assists with special radiographic and fluoroscopic procedures. **Skill Level 30:** Able to perform the duties required for Skill Level 20; performs complex or specialized radiograph procedures or supervises a medium-sized X-ray activity; performs routine examinations or assists with special examinations of the urogenital, respiratory, vascular, and nervous systems; inspects X-ray activities for compliance with radiation safety procedures and initiates corrective action if necessary; organizes work schedules; assigns duties; instructs personnel in technical procedures; supervises preventive maintenance of equipment; supervises procedures to enable unit to function in a toxic environment; evaluates personnel performance and prepares evaluation reports. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises a large X-ray activity; inspects clinic to ensure a safe, clean, orderly, comfortable environment for patients; estab-

lishes work priorities, reviews, consolidates, and prepares technical, administrative, and personnel reports, coordinates activities of clinic with other elements of the medical treatment facility. **Skill Level 50:** Able to perform the duties required for Skill Level 40, supervises X-ray activity in large medical center, assumes departmental management duties including budget, personnel, and supply.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 9 semester hours for a clinical internship, 6 in radiographic techniques, and 3 in radiation protection. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/85).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 15 semester hours for a clinical internship, 6 in radiographic techniques, 3 in radiation protection, and 3 in special radiographic procedures (9/85).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 15 semester hours for a clinical internship, 6 in radiographic techniques, 3 in radiation protection, 3 in special radiographic procedures, and 3 in personnel supervision. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (9/85).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 15 semester hours for a clinical internship, 6 in radiographic techniques, 3 in radiation protection, 3 in special radiographic procedures, 3 in personnel supervision, and 3 for field experience in management. In the upper-division baccalaureate category, 3 semester hours in radiology department administration and credit in patient care administration on the basis of institutional evaluation (9/85).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 15 semester hours for a clinical internship, 6 in radiographic techniques, 3 in radiation protection, 3 in special radiographic procedures, 3 in personnel supervision, and 3 for field experience in management. In the upper-division baccalaureate category, 6 semester hours in radiology department administration and credit in patient care administration on the basis of institutional evaluation (9/85).

MOS-91P-004**RADIOLOGY SPECIALIST**

91P10
91P20
91P30
91P40
91P50

Exhibit Dates: Pending Evaluation. 8/94-Present.

MOS-91Q-003**PHARMACY SPECIALIST**

91Q10
91Q20
91Q30
91Q40
91Q50

Exhibit Dates: 1/90-7/94.

Career Management Field: 91 (Medical).

Description

Summary: Supervises or prepares, controls, and issues pharmaceutical products under supervision of pharmacist or physician. **Skill Level 10:** Able to perform the duties required for skill level 10 of MOS 91B (Medical Specialist); under supervision, interprets, compounds, manufactures, and files prescription orders, bulk drug orders, or unit dose orders; performs storage, accounting, inventory, and control procedures for pharmaceuticals; operates and maintains manufacturing and packaging equipment; assists in setting up unit equipment and shelters. **Skill Level 20:** Able to perform the duties required for Skill Level 10; issues and requisitions medication; evaluates prescription orders, bulk drug orders, or unit dose orders; checks drug orders for interactions, incompatibilities, and availability of dosage forms; issues medication to patients, wards, clinics, and other agencies. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides guidance to subordinates; assists in pharmacy inspections; orders, standard and nonstandard supplies; maintains stock levels; supervises sections within pharmacy service. **Skill Level 40:** Able to perform the duties required for Skill Level 30; assists in compiling information for meetings of Therapeutic Agent Board; assists in revision and update of hospital formulary or drug list; organizes work schedules; instructs personnel in procedures and conducts in-service training; evaluates personnel and prepares evaluation reports; sets stock levels and prepares requisitions; prepares technical, personnel, and administrative reports; coordinates pharmacy activities with other elements of medical treatment facility. **Skill Level 50:** Able to perform the duties required for Skill Level 40; supervises pharmacy activities in large hospital, medical center, or general hospital; assists in establishment and operation of formal training programs; ensures compliance with quality control standards for doctrinal material in formal training programs.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 5 semester hours in introduction to pharmacy practice, 3 in pharmacy assisting, and additional credit in general chemistry, pharmaceutical chemistry, pharmacology, health sciences, and physiology on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in pharmaceutical laboratory and 2 in pharmaceutical mathematics. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/85).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 10 semester hours in introduction to pharmacy practice, 3 in pharmacy assisting, and additional credit in general chemistry, pharmaceutical chemistry, pharmacology, health sciences, and physiology on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in pharmaceutical laboratory and 2 in pharmaceutical mathematics (9/85).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 10 semester hours in introduction to pharmacy practice, 3 in pharmacy assisting, 1 in inventory control, and additional credit

in general chemistry, pharmaceutical chemistry, pharmacology, pharmaceutical preparations, health sciences, physiology, and laboratory techniques on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in pharmaceutical laboratory and 2 in pharmaceutical mathematics (9/85).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 10 semester hours in introduction to pharmacy practice, 3 in pharmacy assisting, 3 in personnel supervision, 2 in principles of administration, 1 in inventory control, and additional credit in general chemistry, pharmaceutical chemistry, pharmacology, pharmaceutical preparations, health sciences, physiology, and laboratory techniques on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in pharmaceutical laboratory, 2 in pharmaceutical mathematics, and additional credit in medical facility management on the basis of institutional evaluation (9/85).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 10 semester hours in introduction to pharmacy practice, 3 in pharmacy assisting, 3 in personnel supervision, 2 in principles of administration, 1 in inventory control, and additional credit in general chemistry, pharmaceutical chemistry, pharmacology, pharmaceutical preparations, health sciences, physiology, and laboratory techniques on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in pharmaceutical laboratory, 2 in pharmaceutical mathematics, 3 in methods of instruction, 3 for field experience in management, and additional credit in medical facility management on the basis of institutional evaluation (9/85).

MOS-91Q-004

PHARMACY SPECIALIST

91Q10
91Q20
91Q30
91Q40
91Q50

Exhibit Dates: Pending Evaluation. 8/94-Present.

MOS-91R-002

VETERINARY SPECIALIST

91R10
91R20
91R30
91R40
91R50

Exhibit Dates: 1/90-5/92.

Career Management Field: 91 (Medical), subfield 913 (Health Services).

Description

Summary: Inspects food and food products for quality, safety, and adherence to contractual specifications. **Skill Level 10:** Assists with food hygiene and quality assurance inspections, using principles of statistical sampling, food microbiology, laboratory analysis, and knowledge of food processing and preservation. **Skill Level 20:** Able to perform the duties required for Skill Level 10; conducts subsistence procurement inspections; inspects processing, han-

dling, packaging, packing, and quality control procedures in canneries, slaughterhouses, and dairies, and in waterfood, meat packing, and dehydration plants; examines poultry, eggs, fruit, vegetables, seafood, meats, and dairy products; selects, prepares, and transmits samples for laboratory testing; reviews test results for contractual requirements; records contractual deficiencies and violations and initiates recommendations for corrective action; develops and applies double and multiple statistical sampling procedures and switching techniques; reviews and updates publications relative to quality assurance procedures; assists veterinarian in antemortem and postmortem examination of food animals. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises procurement quality assurance and surveillance inspections; establishes work priorities; organizes work schedules; assigns duties; instructs subordinates; supervises equipment maintenance programs; prepares and conducts training programs; evaluates personnel performance; maintains technical records; requisitions, stores, and issues supplies. **Skill Level 40:** Able to perform the duties required for Skill Level 30; trains subordinates in food inspection and sanitary control programs; analyzes reports and surveys and recommends remedial action; coordinates transportation, administration, and logistical support of food inspectors; reviews, consolidates, and prepares team inspection records and other technical, personnel, and administrative reports. **Skill Level 50:** Able to perform the duties required for skill level 40 of MOS 91R, 91S (Environmental Health Specialist), or 91T (Animal Specialist); develops work methods and procedures; develops, directs, and evaluates training programs; coordinates activities of veterinary and environmental health activities; assists professional staff with technical, administrative, and fiscal matters.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 7 semester hours in food science, 6 in inspection procedures and regulations, and 1 in veterinary preventive medicine. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 16 semester hours in food science, 7 in inspection procedures and regulations, and 2 in veterinary preventive medicine (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 16 semester hours in food science, 7 in inspection procedures and regulations, 2 in veterinary preventive medicine, and 2 in personnel supervision (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 16 semester hours in food science, 7 in inspection procedures and regulations, 3 in personnel supervision, 3 in human relations, and 2 in veterinary preventive medicine (6/77).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 16 semester hours in food science, 7 in inspection procedures and regulations, 3 in personnel supervision, 3 in human relations, 3 in principles of management, and 2

in veterinary preventive medicine. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (6/77).

MOS-91R-003

VETERINARY FOOD INSPECTION SPECIALIST

91R10

91R20

91R30

91R40

91R50

Exhibit Dates: 6/92–Present.

Career Management Field: 91 (Medical).

Description

Summary: Under supervision, inspects food and food products designated for consumption for quality, safety, and adherence to contractual specifications. *Skill Level 10:* Assists in inspection of meat, poultry, waterfoods, eggs, dairy products, fruits, and vegetables in depots, warehouses, distribution points, installations, and conveyances; determines class of inspection to be performed, lot size, inspection levels, proper inspection tables, acceptable quality levels, identity, condition, and quantity of subsistence; selects sampling plan and samples, and applies sampling procedures to subsistence items on individual or lot basis and determines and verifies age, weight, and physical conformance of samples; makes sensory evaluations; inspects for packaging, packing, and marketing requirements; stamps inspected subsistence and related documents then classifies defects; advises supervisor of nonconformance and assists in evaluation of abnormalities; determines disposition of sample units; collects, prepares, and transmits samples to laboratory for subsistence examination or testing; identifies unsanitary conditions in food storage facilities and commissary stores; prepares subsistence inspection reports; prepares, utilizes, cleans and makes minor repairs and adjustments to food inspection equipment; receives, unpacks, stores, and safeguards inspection supplies and equipment; uses approved security measures to safeguard samples and inspection stamps. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; conducts subsistence quality assurance inspections in food handling and processing establishments on food items procured, shipped, or stored; develops and applies statistical sampling procedures; reviews laboratory test results for product requirements; performs inspection of subsistence to determine compliance with contractual requirements; performs surveillance examinations of subsistence items to determine suitability for issue and continued serviceability; determines deteriorative condition of meat and meat products, fresh fruit and vegetables, dairy products, waterfoods, and semiperishable subsistence; records contractual deficiencies and initiates recommendations for corrective actions; inspects commissary stores and military food storage facilities for unsanitary conditions and recommends corrective action where necessary; prepares and conducts in-service training for the food inspection activity; prepares and maintains quality assurance procedures on fresh dairy products; prepares and maintains quality history record and product verification record and distributes as required; reviews and updates publications that direct quality assurance procedures. *Skill Level*

30: Able to perform the duties required for Skill Level 20; develops and directs procurement quality assurance activities in contractor's establishments and receipt and surveillance inspections at military installations, subsistence distribution points, and depots; trains subordinates in technical aspects of food inspection; reviews, consolidates, and analyzes reports and surveys and recommends remedial action to assure effective inspection procedures; records violations of state and other federal requirements concerning food items; evaluates sanitary compliance of commercial and government-controlled food facilities; utilizes proper channels and procedures to report violations of food wholesomeness, animal disease, and food establishment sanitary requirements; develops and enforces security measures; supervises equipment maintenance program; monitors and evaluates personnel performance; counsels subordinates and prepares evaluation reports; ensures adherence to standards of conduct, cleanliness, technical accuracy, and safety regulations; prepares and conducts training programs; supervises procedures to enable unit to function in nuclear, biological, and chemical environment; assists veterinarian in control of zoonotic diseases; supervises emergency field slaughter procedures of food animals; advises and assists in administrative, fiscal, personnel, and supply matters; monitors requisition, storage, issue, and utilization of supplies and equipment; establishes report control system; prepares and reviews correspondence; maintains food inspection files. *Skill Level 40:* Able to perform the duties required for Skill Level 30; develops, evaluates, and directs food inspection training programs; coordinates transportation, administration, and logistical support of food inspectors and animal care specialists assigned to activities other than the parent activity. *Skill Level 50:* Able to perform the duties required for Skill Level 40; evaluates veterinary service training programs and requirements and provides recommendations for improvement; develops work methods and procedures; develops, evaluates, and directs training programs; coordinates activities of veterinary element with other elements of medical facility; advises and assists professional staff in supply economy procedures and fiscal, technical, and administrative matters.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in food science technology, 3 in food inspection, 3 in quality assurance, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 6/92-2/95 only) (6/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in food science technology, 3 in food inspection, 3 in quality assurance, 3 in personnel supervision, and 2 in records and information management (6/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in food science technology, 3 in food inspection, 3 in quality assurance, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semes-

ter hours in operations management, 3 for field experience in management, and 3 in organizational management (6/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in food science technology, 3 in food inspection, 3 in quality assurance, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in operations management, 3 for field experience in management, and 3 in organizational management, if paygrade E-9 has been attained, additional credit as follows: 3 semester hours in management problems and 3 in communication techniques for managers (6/92).

MOS-91S-004

PREVENTIVE MEDICINE SPECIALIST

91S10

91S20

91S30

91S40

91S50

Exhibit Dates: 1/90–7/94.

Career Management Field: 91 (Medical).

Description

Summary: Supervises, conducts, or assists in surveys and inspections and establishes control measures of environmental factors affecting health of persons in areas of concern. *Skill Level 10:* Conducts environmental health surveys and inspections and assists in preventive medicine by inspecting living quarters, food handling establishments, water systems, liquid and solid waste disposal systems, barber and beauty shops, swimming facilities, nurseries, and industrial areas; inspects personal hygiene practices; reports deviations from prescribed health standards and recommends corrective action; collects specimens and samples and submits them to the laboratory; mixes and applies insecticides, rodenticides, and repellants; performs bacteriological examination and chemical analysis of water and inspects for quarantine standards; performs operator maintenance on preventive medicine equipment; collects data for environmental health reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; conducts environmental health surveys, inspections, and laboratory procedures; performs stream surveys; inspects hospital infectious waste control and disposal procedures; interviews food poisoning patients and tuberculosis, VD, and other communicable disease patients and contacts; conducts related communicable disease investigations; completes case and contact reports; assists with monitoring electromagnetic radiation; identifies medically important parasites, disease vectors, and their animal hosts and recommends insect control procedures; inspects and provides technical assistance for water supply systems, liquid and solid waste collection, treatment, and disposal; inspects and provides technical assistance for collection, treatment, and disposal of hazardous waste. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises preventive medicine sections; collects and analyzes data on occupational illness, injuries, and environmental health; organizes work schedules; assigns duties; instructs in work techniques and procedures; plans and conducts training programs; supervises operational maintenance program of assigned equipment;

evaluates personnel performance and prepares evaluation reports as well as administrative, technical, and personnel reports; prepares supply and equipment requisitions. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises preventive medicine activities; organizes environmental stress surveillance programs; coordinates toxicology data with poison control center; plans vector control program; analyzes and evaluates data pertaining to preventive medicine activities; determines personnel requirements and establishes work priorities; advises and assists professionals in supply, fiscal, technical, and administrative matters. *Skill Level 50:* Able to perform the duties required for Skill Level 40; writes, develops, and coordinates command-wide regulations and policies relating to environmental health services; evaluates training programs and recommends improvements in such programs; participates in studies and reviews and makes recommendations regarding proposals; prepares and presents briefings; assists command environmental health officer in technical supervision of subordinate unit environmental health activities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 15 semester hours in sanitation and disease control (6 semester hours in sanitation and disease control, 3 in laboratory exercises in preventive medicine, 3 for field exercises in prevention and control of communicable diseases, and 3 in entomological and pest management). (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/88).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 18 semester hours in sanitation and disease control (6 semester hours in sanitation and disease control, 3 in laboratory exercises in preventive medicine, 3 for field exercises in prevention and control of communicable diseases, 3 in entomological and pest management, and 3 in preventive medicine administration) and 9 in environmental science (9/88).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 18 semester hours in sanitation and disease control (6 semester hours in sanitation and disease control, 3 in laboratory exercises in preventive medicine, 3 for field exercises in prevention and control of communicable diseases, 3 in entomological and pest management, and 3 in preventive medicine administration). 9 in environmental science, 3 in human relations, and 3 in personnel administration (9/88).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 18 semester hours in sanitation and disease control (6 semester hours in sanitation and disease control, 3 in laboratory exercises in preventive medicine, 3 for field exercises in prevention and control of communicable diseases, 3 in entomological and pest management, and 3 in preventive medicine administration). 9 in environmental science, 3 in human relations, and 3 in personnel administration. In the upper-division baccalaureate category, 3 semester hours in management problems and 3 for field experience in management (9/88).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 18 semester hours in sanitation and disease control (6 semester hours in sanitation and disease control, 3 in laboratory exercises in preventive medicine, 3 for field exercises in prevention and control of communicable diseases, 3 in entomological and pest management, and 3 in preventive medicine administration). 9 in environmental science, 3 in human relations, and 3 in personnel administration. In the upper-division baccalaureate category, 3 semester hours in management problems and 6 for field experience in management (9/88).

MOS-91S-005

PREVENTIVE MEDICINE SPECIALIST

91S10
91S20
91S30
91S40

Exhibit Dates: Pending Evaluation. 8/94-Present.

MOS-91T-003

ANIMAL SPECIALIST

91T10
91T20
91T30
91T40

Exhibit Dates: 1/90-5/92.

Career Management Field: 91 (Medical), subfield 913 (Health Services).

Description

Summary: Under the direction of a veterinarian, supervises or provides care and treatment for small, medium-sized, and large animals. *Skill Level 10:* Provides animal care, management, and treatment; feeds and waters small and medium-sized animals; cleans and sanitizes animal facility, equipment, and utensils; receives and identifies incoming animals; quarantines incoming and sick animals; administers parenteral and oral medication and immunizations; collects and prepares blood and urine samples and fecal specimens; performs common laboratory tests including examining for microfilaria; assists in taking radiographs; prepares animals and equipment for surgery and anesthesia; administers postoperative treatment and monitors postoperative recovery; provides emergency treatment when appropriate; records laboratory results in health records; prepares health and vaccination certificates for veterinarian's signature; requisitions, receives, stores, and inventories pharmaceuticals, supplies, and equipment; prepares reagents, emergency drugs, and special animal rations; maintains animal files, including registration, health data, and immunization record; identifies common animal diseases and administers standard treatment; debrides and sutures superficial wounds; calculates and administers drugs; induces general anesthesia and operates anesthetic equipment; assists in surgical procedures; maintains operating room supplies and cleanliness; performs appropriate laboratory analyses; informs owners of proper treatment instructions and medication prescribed by veterinarian; supervises animal registry and animal pound. *Skill Level 20:* Able to perform the duties required for Skill Level 10; conducts on-the-job training and provides technical guidance to subordi-

nates; may supervise up to nine persons. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises small and medium-sized veterinary activities; organizes work schedules and assigns duties; instructs personnel in proper work techniques and procedures; evaluates personnel performance and prepares evaluation reports; establishes safety procedures; supervises operator maintenance on assigned equipment; conducts in-service training programs; supervises requisition of supplies and equipment; prepares, reviews, and consolidates technical, personnel, and administrative reports; inspects facility; assists veterinarian in personnel, supply, and fiscal matters. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises large veterinary activities.

Recommendation, Skill Level 10

In the vocational certificate category, 15 semester hours in veterinary laboratory techniques. In the lower-division baccalaureate/associate degree category, 2 semester hours for a practicum in veterinary science, 4 in veterinary laboratory techniques, 3 in microbiology, 3 in anatomy and physiology of animals, 3 in administration of drugs, 2 in animal hygiene, 2 in animal diseases, and 1 in surgical procedures for animals. In the upper-division baccalaureate category, 6 semester hours in research on the basis of institutional review of scientific papers or projects. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/80).

Recommendation, Skill Level 20

In the vocational certificate category, 15 semester hours in veterinary laboratory techniques and 3 in office practices and procedures. In the lower-division baccalaureate/associate degree category, 2 semester hours for a practicum in veterinary science, 4 in veterinary laboratory techniques, 3 in microbiology, 3 in anatomy and physiology of animals, 3 in administration of drugs, 2 in animal hygiene, 2 in animal diseases, 1 in surgical procedures for animals, 3 in personnel supervision, and 3 in advanced veterinary laboratory techniques. In the upper-division baccalaureate category, 6 semester hours in research on the basis of institutional review of scientific papers or projects (9/80).

Recommendation, Skill Level 30

In the vocational certificate category, 15 semester hours in veterinary laboratory techniques and 3 in office practices and procedures. In the lower-division baccalaureate/associate degree category, 2 semester hours for a practicum in veterinary science, 4 in veterinary laboratory techniques, 3 in microbiology, 3 in anatomy and physiology of animals, 3 in administration of drugs, 3 in personnel supervision, 3 in technical report writing, 3 in office management, 2 in animal hygiene, 2 in animal diseases, 1 in surgical procedures for animals, and 3 in advanced veterinary laboratory techniques. In the upper-division baccalaureate category, 6 semester hours in research on the basis of institutional review of scientific papers or projects (9/80).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in veterinary laboratory techniques and 3 in office practices and procedures. In the lower-division baccalaureate/associate degree category, 2 semester hours for a practicum in veterinary science, 4 in veterinary labo-

ratory techniques, 3 in microbiology, 3 in anatomy and physiology of animals, 3 in administration of drugs, 3 in personnel supervision, 3 in technical report writing, 3 in office management, 2 in animal hygiene, 2 in animal diseases, 1 in surgical procedures for animals, and 3 in advanced veterinary laboratory techniques. In the upper-division baccalaureate category, credit in veterinary facility management and for field experience in management on the basis of institutional evaluation and 6 semester hours in research on the basis of institutional review of scientific papers or projects (9/80).

MOS-91T-004

ANIMAL CARE SPECIALIST

91T10
91T20
91T30
91T40

Exhibit Dates: 6/92–Present.

Career Management Field: 91 (Medical).

Description

Summary: Under the direction of a veterinarian, supervises or provides care and treatment for small, medium-sized, and large animals. *Skill Level 10:* Provides animal care, management, and treatment; feeds and waters small and medium-sized animals; cleans and sanitizes animal facility, equipment, and utensils; receives and identifies incoming animals; quarantines incoming and sick animals; administers parenteral and oral medication and immunizations; collects and prepares blood and urine samples and fecal specimens; performs common laboratory tests including examining for microfilariasis; assists in taking radiographs; prepares animals and equipment for surgery and anesthesia; administers postoperative treatment and monitors postoperative recovery; provides emergency treatment when appropriate; records laboratory results in health records; prepares health and vaccination certificates for veterinarian's signature; requisitions, receives, stores and inventories pharmaceuticals, supplies, and equipment; prepares reagents, emergency drugs, and special animal rations; maintains animal files, including registration, health data, and immunization record; identifies common animal diseases and performs standard treatment techniques; debrides and sutures superficial wounds; calculates and administers drugs; induces general anesthesia and operates anesthetic equipment; assists in surgical procedures; maintains operating room supplies and cleanliness; performs appropriate laboratory analyses; informs owners of proper treatment instructions and medication prescribed by veterinarian; supervises animal registry and animal pound. *Skill Level 20:* Able to perform the duties required for Skill Level 10; conducts on-the-job training and provides technical guidance to subordinates; observes animals for common diseases; inspects animal facilities; performs advanced emergency medical treatment; operates mechanical apparatus during surgery; performs diagnostic laboratory procedures; supervises small and medium-sized veterinary activities; organizes work schedules and assigns duties; instructs personnel in proper work techniques and procedures; evaluates personnel performance and prepares evaluation reports; establishes safety procedures; supervises operator maintenance on assigned equipment; conducts in-service training programs; supervises

requisition of supplies and equipment; prepares, reviews, and consolidates technical, personnel, and administrative reports; inspects facility; assists veterinarian in personnel, supply, and fiscal matters. *Skill Level 30:* Able to perform the duties required for Skill Level 20; develops procedures for veterinary facility; performs as liaison for veterinary officer in various capacities; reviews and prepares technical, personnel, and administrative reports; supervises preventive maintenance and supply program. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises large veterinary activities.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in veterinary laboratory techniques, 5 in clinical practice in veterinary science, 3 in animal hygiene, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 6/92-2/95 only) (6/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in veterinary laboratory techniques, 5 in clinical practice in veterinary science, 3 in animal hygiene, 3 in personnel supervision, and 2 in records and information management (6/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in veterinary laboratory techniques, 5 in clinical practice in veterinary science, 3 in animal hygiene, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (6/92).

MOS-91U-002

EAR, NOSE, AND THROAT (ENT) SPECIALIST

91U10
91U20
91U30
91U40

Exhibit Dates: 1/90–3/92.

Career Management Field: 91 (Medical), subfield 912 (Patient Care).

Description

Summary: Conducts routine diagnostic tests and assists physician in care and treatment of ear, nose, and throat patients. *Skill Level 10:* Able to perform the duties required for skill level 10 of MOS 91B (Medical Specialist); administers and records patient responses to various diagnostic and labyrinthine tests; measures auditory acuity; irrigates patients' ears; sets up equipment and assists physician with clinical procedures; obtains specimens for culture and prepares laboratory requests; prepares equipment trays and basins; assists the physician in the performance of minor surgery; sterilizes and cares for instruments and equipment; operates resuscitation and oxygenation equipment; performs and records the results of diagnostic tests; assists audiologist in hearing aid evaluation. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; administers

prescribed medication. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists in managing a small ENT clinic; organizes work schedules; assigns duties; instructs subordinates in work techniques and procedures; supervises operational maintenance program of clinical equipment; prepares training programs; evaluates personnel performance and prepares evaluation reports; coordinates activities of ENT clinic with other elements of medical treatment facility; assists physician with personnel, fiscal, and administrative matters; prepares, reviews, and consolidates technical and administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in managing a large ear, nose, and throat clinic.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 4 semester hours for a practicum in otolaryngology, 3 in principles of otolaryngology, and 1 in anatomy and physiology. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 7 semester hours for a practicum in otolaryngology, 3 in principles of otolaryngology, 2 in principles of audiometry, and 1 in anatomy and physiology (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 7 semester hours for a practicum in otolaryngology, 3 in principles of otolaryngology, 3 in personnel supervision, 2 in principles of audiometry, 2 in communication skills, 2 in principles of management, 1 in anatomy and physiology, and 1 in health care management. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 7 semester hours for a practicum in otolaryngology, 3 in principles of otolaryngology, 3 in personnel supervision, 2 in principles of audiometry, 2 in communication skills, 2 in principles of management, 1 in anatomy and physiology, and 1 in health care management. In the upper-division baccalaureate category, credit in patient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS-91U-003

EAR, NOSE, AND THROAT (ENT) SPECIALIST

91U10
91U20
91U30
91U40

Exhibit Dates: 4/92–12/94. (Effective 12/94, MOS 91U was discontinued, and its duties were incorporated into MOS 91B.)

Career Management Field: 91 (Medical).

Description

Summary: Conducts routine diagnostic tests and assists physician in care and treatment of ear, nose, and throat patients. *Skill Level 10:* Administers and records patient responses to various diagnostic and labyrinthine tests; measures auditory acuity; irrigates patients' ears; sets up equipment and assists physician with clinical procedures; obtains specimens for cul-

ture and prepares laboratory requests; prepares equipment trays and basins; assists the physician in the performance of minor surgery; sterilizes and cares for instruments and equipment; operates resuscitation and oxygenation equipment; performs and records the results of diagnostic tests; assists audiologist in hearing aid evaluation. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and supervision to subordinates; administers prescribed medication. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists in managing a small ENT clinic; organizes work schedules; assigns duties; instructs subordinates in work techniques and procedures; supervises operational maintenance program of clinical equipment; prepares training programs; evaluates personnel performance and prepares evaluation reports; coordinates activities of ENT clinic with other elements of medical treatment facility; assists physician with personnel, fiscal, and administrative matters; prepares, reviews, and consolidates technical and administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in managing a large ear, nose, and throat clinic.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in audiology assisting, 4 in audiology clinical practice, and 3 in personnel supervision (4/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in audiology assisting, 5 in audiology clinical practice, 3 in personnel supervision, and 2 in records and information management (4/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in audiology assisting, 6 in audiology clinical practice, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (4/92).

MOS-91V-002

RESPIRATORY SPECIALIST

91V10
91V20
91V30
91V40

Exhibit Dates: 1/90-5/92.

Career Management Field: 91 (Medical), subfield 912 (Patient Care).

Description

Summary: Assists with the care and treatment of patients requiring respiratory assistance; performs pulmonary function tests under the supervision of a physician or anesthetist. *Skill Level 10:* Able to perform the duties required for skill level 10 of MOS 91B (Medical Specialist); administers respiratory therapy and performs pulmonary function tests; receives and interprets treatment request; prepares and tests equipment; mixes prescribed cardiopulmonary medication; verifies identity and instructs, orients, and positions patient for

therapy; adjusts controls of intermittent positive pressure breathing apparatus and administers therapy; assesses tidal volume and adjusts apparatus to meet ventilatory changes; observes, corrects, and records patient response; administers aerosol and gas therapy; adjusts and maintains equipment during operation and observes safety regulations; administers pulmonary drainage procedures; percusses and vibrates patient; collects and visually analyzes sputum specimens for foreign substances; assists with cardiopulmonary resuscitation, evaluates effectiveness, and records results; prepares and tests nebulizer for administration of medication and adjusts for drug concentration; follows isolation procedures; disassembles, cleans, sterilizes, assembles, and tests respiratory therapy equipment; adjusts volume ventilator controls for initial operation and during therapy; observes and corrects patient response and evaluates ventilator effectiveness; weans patient from ventilator dependence; prepares, tests, and administers special volume ventilator equipment, such as chronic positive pressure breathing, intermittent mandatory ventilation, chronic positive airway pressure, and positive and expiratory pressure; applies electromechanical monitors; evaluates airway potency; instills solution prior to tracheobronchial aspiration; hyperinflates and hyperoxygenates patient; aspirates tracheobronchial passage; inflates and deflates tracheostomy cuff; provides tracheostomy tube and stoma care; evaluates patient cardiorespiratory status; utilizes emergency ventilators; evaluates resuscitator's effectiveness; implements culturing procedures; applies corrective actions for contaminated equipment; reads and evaluates patient charts; instructs patient and family in breathing exercises and postural drainage procedures and evaluates ability to operate home therapy equipment; maintains safe, clean, and orderly work area; stores and maintains supplies and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; calibrates and slopes arterial blood gas analyzer; performs arterial blood gas procedures and interprets and records results; applies safety precautions relevant to pulmonary function testing; calculates data and compares results; performs auscultation of lungs; receives and issues supplies and equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists in defibrillation of patient; plans and monitors culturing procedures; determines corrective action for contaminated equipment; inspects working areas to ensure an orderly, clean, and safe environment for patients; supervises operational maintenance program of clinical equipment; prepares and conducts training programs; evaluates personnel performance and prepares evaluation reports; prepares administrative technical and patient reports; supervises packing, unpacking, loading, unloading, and setting up of unit equipment and shelters. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises respiratory unit activities; applies and monitors safety procedures relevant to modular pulmonary function testing; administers tests, calculates test data, records results, and compares results with normal predicted values; develops, implements, and evaluates training programs; compiles management data, evaluates and determines personnel requirements, and assists in the planning and operation of respiratory unit; coordinates activities of unit with other elements of the medical treatment facility; advises and assists

professional staff in supply economy procedures and fiscal, technical, and administrative matters; reviews, consolidates, and prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 10

In the vocational certificate category, 30 semester hours in a respiratory therapy program. In the lower-division baccalaureate/associate degree category, 8 semester hours for clinical experience in respiratory therapy, 4 in respiratory therapy in clinical medicine, 4 in anatomy and physiology, 3 in principles of pulmonary therapy, 3 in principles of ventilation therapy, 3 in cardiopulmonary physiology, 2 in microbiology and immunology, 2 in basic sciences (chemistry and physics), and 1 in pharmacology. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/77).

Recommendation, Skill Level 20

In the vocational certificate category, 33 semester hours in a respiratory therapy program. In the lower-division baccalaureate/associate degree category, 11 semester hours for clinical experience in respiratory therapy, 4 in respiratory therapy in clinical medicine, 4 in anatomy and physiology, 3 in principles of pulmonary therapy, 3 in principles of ventilation therapy, 3 in cardiopulmonary physiology, 2 in microbiology and immunology, 2 in basic sciences (chemistry and physics), and 1 in pharmacology (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 33 semester hours in a respiratory therapy program. In the lower-division baccalaureate/associate degree category, 11 semester hours for clinical experience in respiratory therapy, 4 in respiratory therapy in clinical medicine, 4 in anatomy and physiology, 3 in principles of pulmonary therapy, 3 in principles of ventilation therapy, 3 in cardiopulmonary physiology, 2 in microbiology and immunology, 2 in basic sciences (chemistry and physics), and 1 in pharmacology (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 33 semester hours in a respiratory therapy program. In the lower-division baccalaureate/associate degree category, 11 semester hours for clinical experience in respiratory therapy, 4 in respiratory therapy in clinical medicine, 4 in anatomy and physiology, 3 in principles of pulmonary therapy, 3 in principles of ventilation therapy, 3 in cardiopulmonary physiology, 2 in microbiology and immunology, 2 in basic sciences (chemistry and physics), 1 in pharmacology, 3 in personnel supervision, and 3 in clinic management. In the upper-division baccalaureate category, credit in patient care administration, introduction to management, and for field experience in management on the basis of institutional evaluation (6/77).

MOS-91V-003

RESPIRATORY SPECIALIST

91V10
91V20
91V30
91V40

Exhibit Dates: 6/92-Present.

Career Management Field: 91 (Medical).

Description

Summary: Assists with the care and treatment of patients requiring respiratory therapy; performs pulmonary function tests under the supervision of a physician or anesthetist. *Skill Level 10:* Administers respiratory therapy and performs pulmonary function tests; receives and interprets treatment request; prepares and tests equipment; mixes prescribed cardiopulmonary medications; verifies identity and instructs, orients, and positions patient for therapy; adjusts controls of intermittent positive pressure breathing apparatus and administers therapy; assesses tidal volume and adjusts apparatus to meet ventilatory changes; observes, corrects, and records patient response; administers aerosol and gas therapy; adjusts and maintains equipment during operation and observes safety regulations; administers pulmonary drainage procedures; percusses and vibrates patient; collects and visually analyzes sputum specimens; assists with cardiopulmonary resuscitation; evaluates effectiveness, and records results; prepares and tests nebulizer for administration of medication; follows isolation procedures; disassembles, cleans, sterilizes; assembles, and tests respiratory therapy equipment; adjusts volume ventilator controls for initial operation and during therapy; observes patient response and evaluates ventilator effectiveness; weans patient from ventilator dependence; prepares, tests, and administers all modes of special volume ventilator equipment; applies electromechanical monitors; evaluates airway potency; instills solutions; hyperinflates and hyperoxygenates patient; analyzes arterial blood samples; records and interprets results; auscultates lungs; aspirates tracheobronchial passage; inflates and deflates tracheostomy cuff; provides tracheostomy tube and stoma care; evaluates patient cardiorespiratory status; utilizes emergency ventilators; evaluates patient cardiorespiratory status; utilizes emergency ventilators; evaluates resuscitator's effectiveness; implements culturing procedures; applies corrective actions for contaminated equipment; reads and evaluates patient charts; instructs patient and family in breathing exercises and postural drainage procedures; evaluates ability to operate home therapy equipment; maintains safe, clean, and orderly work area; stores and maintains supplies and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; calibrates and slopes arterial blood gas analyzer; applies safety precautions relevant to pulmonary function testing; calculates data and compares results; receives and issues supplies and equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists in defibrillation of patient; plans and monitors culturing procedures; determines corrective action for contaminated equipment; inspects working areas to ensure an orderly, clean, and safe environment for patients; supervises operational maintenance program of clinical equipment; prepares and conducts training programs; evaluates personnel performance and prepares evaluation reports; prepares administrative technical and patient reports; supervises packing, unpacking, loading, unloading, and setting up of unit equipment and shelter. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises respiratory unit activities; applies and monitors safety procedures relevant to modular pulmonary function testing; administers tests, calculates test data, records results, and compares results with nor-

mal predicted values; develops, implements, and evaluates training programs; compiles management data; evaluates and determines personnel requirements, and assists in the planning and operation of respiratory unit, coordinates activities of unit with other elements of the medical treatment facility; advises and assists professional staff in supply economy procedures and fiscal, technical, and administrative matters; reviews, consolidates, and prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in mechanical ventilation, 4 in respiratory care clinical practice, 4 in arterial blood gases, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 6/92-2/95 only) (6/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in mechanical ventilation, 4 in respiratory care clinical practice, 4 in arterial blood gases, 3 in personnel supervision, and 2 in records and information management (6/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in mechanical ventilation, 4 in respiratory care clinical practice, 4 in arterial blood gases, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (6/92).

MOS-91W-002**NUCLEAR MEDICINE SPECIALIST**

91W10

91W20

91W30

91W40

Exhibit Dates: 1/90-5/92.

Career Management Field: 91 (Medical), subfield 912 (Patient Care).

Description

Summary: Supervises or performs medical diagnostic and therapeutic procedures with radioactive isotopes. *Skill Level 10:* Able to perform the duties required for skill level 10 of MOS 91P (X-Ray Specialist), 92B (Medical Laboratory Specialist), or 91B (Medical Specialist); prepares and administers radioisotopes to patients and operates radiological imaging devices and counters. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs operational checks, standardizing procedures, and preventive maintenance on equipment; calculates dosage, prepares dilution, and administers tests under direct supervision of physician; operates imaging device to make scans of organs, including brain, liver, thyroid, pancreas, spleen, and lungs; makes photographs of images; collects appropriate specimens for such procedures as blood volume determination, Schilling test, thyroid uptake, red cell survival time, and fat metabolism studies; performs assay procedures using beta and gamma radioassay techniques; determines

activity of radioisotope stocks and waste, determines presence of health hazards from therapeutic, diagnostic, and experimental radioactive isotopes, measures and records degree of contamination, controls spread of contamination, and institutes decontamination procedures. *Skill Level 30:* Able to perform the duties required for Skill Level 20, provides technical guidance to subordinates. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists with the management of a nuclear medicine facility; requisitions, accounts for, and stores radioisotopes used in the laboratory; is responsible for radiation safety program in laboratory area; supervises radiation survey, monitoring, and contamination control procedures; disposes of stocks when radioactivity decays to nonusable level; establishes work priorities and procedures; organizes work schedules; assigns duties; establishes safety procedures; instructs subordinates in work techniques and procedures; supervises operational maintenance program of clinical equipment; evaluates personnel performance and prepares evaluation reports; prepares patient, technical, and administrative reports; coordinates activities of nuclear medicine facility with other elements of the medical treatment facility; advises and assists professional staff with technical, administrative, and fiscal matters.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours for a clinical internship, 6 in algebra, 6 in physics, and additional credit in nuclear medicine technology, radiology, and occupational health and safety on the basis of institutional evaluation. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours for a clinical internship, 6 in nuclear medicine procedures, 6 in algebra, 6 in physics, and additional credit in nuclear medicine technology, radiology, and occupational health and safety on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours for a clinical internship, 6 in nuclear medicine procedures, 6 in algebra, 6 in physics, and 3 in advanced nuclear medicine procedures, and additional credit in nuclear medicine technology, radiology, and occupational health and safety on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours for a clinical internship, 6 in nuclear medicine procedures, 6 in algebra, 6 in physics, 3 in advanced nuclear medicine procedures, 3 in personnel supervision, and 3 in human relations, and additional credit in nuclear medicine technology, radiology, and occupational health and safety on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in administration of nuclear medicine facility (6/77).

MOS-91W-003**NUCLEAR MEDICINE SPECIALIST**

91W10

91W20

91W30

91W40

Exhibit Dates: 6/92–12/94. (Effective 12/94, MOS 91W was discontinued, and its duties were incorporated into MOS 91P.)

Career Management Field: 91 (Medical).

Description

Summary: Supervises or performs medical diagnostic and therapeutic procedures with radioactive isotopes. **Skill Level 10:** Prepares and administers radioisotopes to patients and operates radiological imaging devices and counters. **NOTE:** Progresses to 91W10 from 91P10, X-Ray Specialist; 92B10, Medical Laboratory Specialist; or 91A10, Medical Specialist. **Skill Level 20:** Able to perform the duties required for Skill Level 10; performs operational checks, standardizing procedures, and preventive maintenance on equipment; calculates dosage, prepares dilution, and administers tests under direct supervision of physician; operates imaging device to make scans of organs, including brain, liver, thyroid, pancreas, spleen, and lungs; makes photographs of images; collects appropriate specimens for such procedures as blood volume determination, Schilling test, thyroid uptake, red cell survival time, and fat metabolism studies; performs assay procedures using beta and gamma radioisotope techniques; determines activity of radioisotope stocks and waste; determines presence of health hazards from therapeutic, diagnostic, and experimental radioactive isotopes; measures and records degree of contamination; controls spread of contamination; and institutes decontamination procedures. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides supervision and technical guidance to subordinates. **Skill Level 40:** Able to perform the duties required for Skill Level 30; assists with the management of a nuclear medicine facility; requisitions, accounts for, and stores radioisotopes used in the laboratory; is responsible for radiation safety program in laboratory area; supervises radiation survey, monitoring, and contamination control procedures; disposes of stocks when radioactivity decays to nonusable level; establishes work priorities and procedures; organizes work schedules; assigns duties; establishes safety procedures; instructs subordinates in work techniques and procedures; supervises operational maintenance program of clinical equipment; evaluates personnel performance and prepares evaluation reports; prepares patient, technical, and administrative reports; coordinates activities of nuclear medicine facility with other elements of the medical treatment facility; advises and assists professional staff with technical, administrative, and fiscal matters.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in directed practice in nuclear medicine, 4 in clinical applications in nuclear medicine, and 3 in personnel supervision (6/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in directed practice in nuclear medicine, 4 in clinical applications in nuclear medicine, 3 in personnel supervision, and 2 in records and information management (6/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in directed practice in nuclear medicine, 4 in clinical applications in nuclear medicine, 3 in personnel supervision, 2 in records and information management, and 3 in quality assurance and safety. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (6/92).

MOS-91X-001**HEALTH PHYSICS SPECIALIST**

91X20

91X30

91X40

Exhibit Dates: 1/90–12/94. (Effective 12/94, MOS 91X was discontinued, and its duties were incorporated into MOS 91S.)

Career Management Field: 91 (Medical).

Description

Summary: Supervises or performs technician-level health physics functions in support of radiation protection programs either in medical treatment facilities or other agencies operating under Army control. **Skill Level 20:** Conducts ionizing and non-ionizing radiation protection surveys, including diagnostic X-ray, nuclear medicine inpatient, sealed and unsealed source radiation therapy, and teletherapy in research and vitro clinical laboratories, industrial facilities, gamma irradiators, waste storage and disposal areas, electronic microscope, laser, and microwave equipment, ultraviolet and high intensity visible light source facilities, and environmental radiation and occupational air sampling; evaluates outpatient potential hazards and develops techniques to minimize risk of radiation exposure to workers; coordinates collection and disposal of radioactive waste with material users; calibrates radiation survey meters and other health physics detectors, monitors, and measuring equipment; arranges outside calibration support; conducts preliminary investigation of radioactive contamination incidents and apparent overexposure to radiation; prepares results of surveys; performs quality control procedures; develops and presents special radiation safety instruction for technician users. **Skill Level 30:** Able to perform the duties required for Skill Level 20; assumes basic supervisory activities; supervises personnel dosimetry program; establishes work schedules and priorities; conducts nonroutine radiation protection surveys; performs nonroutine analysis; reports incidence of noncompliance; evaluates complex radiation activities for potential hazards; evaluates working conditions for workers; conducts studies to define radiation hazards; repairs and calibrates complex equipment; develops requirements for new equipment; prepares data for budget planning; conducts training of emergency team members. **Skill Level 40:** Able to perform the duties required for Skill Level 30; designs and conducts sophisticated radiation protection surveys; reviews plans for proposed construction

of radiation facilities for design adequacy; conducts thorough investigations of unusual or complex radiation incidents.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of physical sciences, 4 in introduction to health physical sciences, 2 in environmental and legal aspects of radiation, 5 in medical X-ray survey procedures, and 5 for clinical experience in applied health physics (9/85).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of physical sciences, 4 in introduction to health physical sciences, 2 in environmental and legal aspects of radiation, 5 in medical X-ray procedures, 5 for clinical experience in applied health physics, 2 in oral communications, and 3 for field experience in radiation protection (9/85).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of physical sciences, 4 in introduction to health physical sciences, 2 in environmental and legal aspects of radiation, 5 in medical X-ray procedures, 5 for clinical experience in applied health physics, 3 in oral communications, and 6 for field experience in radiation protection (9/85).

MOS-91Y-002**EYE SPECIALIST**

91Y10

91Y20

91Y30

91Y40

Exhibit Dates: 1/90–3/92.

Career Management Field: 91 (Medical), subfield 912 (Patient Care).

Description

Summary: Conducts routine diagnostic tests and assists in care and treatment of ophthalmology or optometry patients. **Skill Level 10:** Able to perform the duties required for skill level 10 of MOS 91B (Medical Specialist); conducts routine diagnostic tests, administers prescribed medications, and assists in caring for eye patients; determines purpose of patient visit; administers various visual tests and records results; measures accommodative ability; measures muscle balance with and without correction, near and distant; measures limits of central and peripheral field, intraocular pressure, interpupillary distance, bridge size, and temple length; performs minor repairs and adjustments to spectacles; instills drops and ointments in eye as prescribed; removes nonembedded foreign objects from surface of eye or underside of lid; assists in obtaining specimens; assists the physician in performing minor surgery; maintains ophthalmology and optometry equipment and instruments; performs prescribed sterilization procedures; performs ophthalmic photography; measures prismatic power of lenses; operates resuscitation and oxygenation equipment; instructs patients in insertion, removal, and care of contact lenses; prepares slides for weights and grams staining; applies and removes dressings as directed; performs emergency procedures as required; maintains inventory of supplies and equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. **Skill Level 30:** Able to perform the

duties required for Skill Level 20, assists in managing a small ophthalmology or optometry clinic; organizes work schedules and determines personnel requirements; assigns duties and establishes work priorities; instructs subordinates in work techniques and procedures; supervises operational maintenance program of clinical equipment; evaluates personnel performance and prepares evaluation reports; coordinates activities of ophthalmology and optometry clinics with other elements of the medical treatment facility; assists physician with personnel, fiscal, and administrative matters; prepares patient and administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in managing a large ophthalmology or optometry clinic.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of ophthalmology, 4 for a practicum in ophthalmology, 4 for a practicum in optometry, 2 in principles of optometry, and 1 in anatomy and physiology. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of ophthalmology, 6 for a practicum in ophthalmology, 6 for a practicum in optometry, 2 in principles of optometry, and 1 in anatomy and physiology (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of ophthalmology, 6 for a practicum in ophthalmology, 6 for a practicum in optometry, 2 in principles of optometry, 1 in anatomy and physiology, 3 in personnel supervision, 2 in communication skills, 2 in principles of management, and 1 in health care administration. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of ophthalmology, 6 for a practicum in ophthalmology, 6 for a practicum in optometry, 2 in principles of optometry, 1 in anatomy and physiology, 3 in personnel supervision, 2 in communication skills, 2 in principles of management, and 1 in health care administration. In the upper-division baccalaureate category, credit in patient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS-91Y-003

EYE SPECIALIST

91Y10
91Y20
91Y30
91Y40

Exhibit Dates: 4/92-12/94. (Effective 12/94, MOS 91Y was discontinued, and its duties were incorporated into MOS 91B.)

Career Management Field: 91 (Medical).

Description

Summary: Conducts routine diagnostic tests and assists in care and treatment of ophthalmol-

ogy or optometry patients. *Skill Level 10:* Conducts routine diagnostic tests; administers prescribed medications; assists in caring for eye patients; determines purpose of patient visit; administers various visual tests and records results; measures accommodative ability; measures muscle balance with and without correction, near and distant; measures limits of central and peripheral field, intraocular pressure, inter-pupillary distance, bridge size, and temple length; performs minor repairs and adjustments to spectacles, instills drops and ointments in eye as prescribed; removes nonembedded foreign objects from surface of eye or underside of lid; assists in obtaining specimens; assists the physician in performing minor surgery; maintains ophthalmology and optometry equipment and instruments; performs prescribed sterilization procedures; performs ophthalmic photography; measures prismatic power of lenses; operates resuscitation and oxygenation equipment; instructs patients in insertion, removal, and care of contact lenses; prepares slides for weights and grams staining; applies and removes dressings as directed; performs emergency procedures as required; maintains inventory of supplies and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists in managing a small ophthalmology or optometry clinic; organizes work schedules and determines personnel requirements; assigns duties and establishes work priorities; instructs subordinates in work techniques and procedures; supervises operational maintenance program of clinical equipment; evaluates personnel performance and prepares evaluation reports; coordinates activities of ophthalmology and optometry clinics with other elements of the medical treatment facility; assists physician with personnel, fiscal, and administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in managing a large ophthalmology or optometry clinic.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of optometric assisting, 4 in optometric assisting clinical practice, and 3 in personnel supervision (4/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of optometric assisting, 5 in optometric assisting clinical practice, 3 in personnel supervision, and 2 in records and information management (4/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of optometric assisting, 6 in optometric assisting clinical practice, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (4/92).

MOS-92A-001

AUTOMATED LOGISTICAL SPECIALIST

92A10
92A20
92A30
92A40
92A50

Exhibit Dates: 2/93-2/95.

Career Management Field: 92 (Supply and Service).

Description

Summary: Supervises or performs stock record and warehouse functions, including stock receipt, storage, distribution, and issue; maintains equipment records and parts. *Skill Level 10:* Establishes and maintains stock records and other records; establishes and maintains automated and manual accounting records, posts receipts and turn-ins; reviews and verifies quantities received against shipping documents; prepares and maintains records on equipment usage, operation, maintenance, modification, and calibration; processes inventories, surveys, and warehousing documents; prepares, annotates, and distributes shipping documents; performs accounting and sales functions in self-service supply. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and provides technical guidance to subordinates; reviews stock items and recommends additions, deletions, or changes; obtains repair parts to meet equipment maintenance needs; assists in planning maintenance needs for the unit; performs financial management functions. *Skill Level 30:* Able to perform the duties required for Skill Level 20; inspects and evaluates inventory management activities; analyzes statistical data to determine effectiveness of technical edit; plans and organizes receipt, issue, salvage, and maintenance of records for all classes of supply; prepares reports regarding personnel, storage, and relocation of material; supervises warehouse activity. *Skill Level 40:* Able to perform the duties required for Skill Level 30; conducts surveillance inspection of material in storage; develops training programs; assists in development and preparation of operations information including plans, maps, sketches, and other data related to supply organization employment. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as mid-level manager supervising supply and related service operations; assists commander in planning, supervising, inspecting, developing, and executing unit policy; advises commander on enlisted personnel matters; provides counsel and guidance to subordinates; analyzes reports on supply and service support operations.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management, 3 in records and information management, 2 in computer applications, and 1 in personnel supervision (3/95).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management, 3 in records and information management, 3 in computer applications, and 3 in personnel supervision. In the upper-division

baccalaureate category, 3 semester hours for field experience in management (3/95).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management, 3 in records and information management, 3 in personnel supervision; and 3 in computer applications based on individual assessment of the student. In the upper-division baccalaureate category, 6 semester hours for field experience in management (3/95).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management, 3 in records and information management, 3 in personnel supervision, and 3 in computer applications based on individual assessment of the student. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in organizational management (3/95).

MOS-92A-002

AUTOMATED LOGISTICAL SPECIALIST

92A10
92A20
92A30
92A40
92A50

Exhibit Dates: 3/95–Present.

Career Management Field: 92 (Supply and Service).

Description

Summary: Supervises or performs stock record and warehouse functions, including stock receipt, storage, distribution, and issue; maintains equipment records and parts. *Skill Level 10:* Establishes and maintains stock records and other records; establishes and maintains automated and manual accounting records, posts receipts and turn-ins; reviews and verifies quantities received against shipping documents; prepares and maintains records on equipment usage, operation, maintenance, modification, and calibration; processes inventories, surveys, and warehousing documents; prepares, annotates, and distributes shipping documents; performs accounting and sales functions in self-service supply. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises and provides technical guidance to subordinates; reviews stock items and recommends additions, deletions, or changes; obtains repair parts to meet equipment maintenance needs; assists in planning maintenance needs for the unit; performs financial management functions. *Skill Level 30:* Able to perform the duties required for Skill Level 20; inspects and evaluates inventory management activities; analyzes statistical data to determine effectiveness of technical edit; plans and organizes receipt, issue, salvage, and maintenance of records for all classes of supply; prepares reports regarding personnel, storage, and relocation of material; supervises warehouse activity. *Skill Level 40:* Able to perform the duties required for Skill Level 30; conducts surveillance inspection of material in storage; develops training programs; assists in development and preparation of operations information including plans, maps, sketches, and other data related to supply organization employment. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as mid-level manager supervising supply

and related service operations; assists commander in planning, supervising, inspecting, developing, and executing unit policy; advises commander on enlisted personnel matters; provides counsel and guidance to subordinates; analyzes reports on supply and service support operations.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management, 3 in records and information management, 2 in computer applications, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/95).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management, 3 in records and information management, 3 in personnel supervision; and 3 in computer applications based on individual assessment of the student. In the upper-division baccalaureate category, 6 semester hours for field experience in management (3/95).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management, 3 in records and information management, 3 in personnel supervision, and 3 in computer applications based on individual assessment of the student. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in organizational management (3/95).

MOS-92B-002

MEDICAL LABORATORY SPECIALIST

92B10
92B20
92B30
92B40
92B50

Exhibit Dates: 1/90–5/92.

Career Management Field: 91 (Medical), subfield 913 (Health Services).

Description

Summary: Performs blood banking procedures and elementary and advanced examinations of biological and environmental specimens to aid in diagnosis, treatment, and prevention of disease. *Skill Level 10:* Receives, collects, and labels specimens; calculates and records results of analyses; prepares laboratory specimens for the determination of parasites, plasmodium species, ABO group and Rh type blood; performs antihuman globulin, microhematocrit, and manual hemoglobin procedures; performs manual white blood cell counts; prepares and examines thin-blood film slides and stain procedures; performs erythrocyte sedimentation rate procedures; determines specific gravity and performs chemical tests on urine to detect glucose, protein, blood, ketones, mucin, or melanogen; prepares urine samples for determination of pH, microscopic examination, cells, and mucous threads; inoculates bacteriological specimens and stains bacteriological

smears and examines for stain reaction; prepares and sterilizes culture media; performs manual biochemical determinations on blood; examines semiautomatically for chlorides, sodium, and potassium; performs basic serological screening for syphilis and rheumatoid arthritis; performs basic preventive maintenance on laboratory equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs blood banking and elementary laboratory procedures related to immunohematology, hematology, biochemistry, serology, bacteriology, and parasitology; selects, pretests, and bleeds donors and stores and issues blood; determines ABO group and Rh type of donor and recipient; performs immunohematology procedures such as antibody titers and compatibility testing; prepares and stores blood components; performs ABO subgrouping and DU testing to detect antibodies; performs complete blood count and cell counts; performs coagulation tests; uses automated, semiautomated, or manual procedures to determine cholesterol, total protein and A/G ratio, blood pH, pO₂, and pCO₂; performs basic serology procedures for syphilis, pregnancy, infectious mononucleosis, and arthritis; prepares red cell suspensions and dilutions; examines body fluids and feces for presence of protozoa, helminths, and extraintestinal parasites; prepares and sterilizes culture media; inoculates specimens for microscopic examination; isolates, identifies, and studies such microorganisms as streptococcus, staphylococcus, pneumococcus, and common gram negative organisms. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises small medical laboratory or performs advanced procedures in all phases of blood banking and clinical laboratory testing, including virology, mycology, histology, and toxicology; performs complex laboratory tests, examinations, and analyses under general supervision and provides technical assistance to subordinates; performs cultures and antimicrobial sensitivity determinations including those taken from autopsies; performs clinical parasitology procedures; performs fluorescent antibody agglutination, complement fixation, and other serological tests; processes tissue; performs biochemical analysis of blood, urine, sweat, and spinal fluid for carbohydrates, proteins, hemoglobins, lipids, hormones, minerals, electrolytes, vitamins, enzymes, pigments, and drugs; performs metabolic, liver function, and renal function tests; screens exfoliative cytology specimens; performs complete blood counts and identifies maturation stages in normal and abnormal cells; performs special procedures in staining and preparing bone marrow smears, erythrocyte osmotic fragility studies, lupus erythematosus determinations, detection of coagulation disorders, complex electrophoresis studies, and abnormal cell morphology in anemias and leukemias; analyzes air, food, water, and biological fluids for contaminants; supervises operator maintenance procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises medium-sized medical laboratory; develops and supervises quality control measures and procedures; assigns duties; organizes work schedules; instructs subordinates; inspects laboratory; supervises operational maintenance; determines personnel requirements and prepares and conducts training; evaluates personnel performance; prepares administrative, technical, and personnel reports; coordinates

activities of medical laboratories with other units of medical facility, assists laboratory officer in administrative matters. *Skill Level 50:* Able to perform the duties required for Skill Level 40, supervises large medical laboratory activities.

Recommendation, Skill Level 10

In the vocational certificate category, 10 semester hours in a certified laboratory assistant program. In the lower-division baccalaureate/associate degree category, 15 semester hours in a medical laboratory technician program (basic procedures in hematology, clinical chemistry, and urinalysis, immunohematology and serology, medical bacteriology, and parasitology). (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/77).

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in a certified laboratory assistant program. In the lower-division baccalaureate/associate degree category, 24 semester hours in a medical laboratory technician program (hematology, immunology, immunohematology and blood banking; and basic procedures in hematology, clinical chemistry and urinalysis, immunohematology and serology, medical bacteriology, and parasitology) (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 10 semester hours in a certified laboratory assistant program. In the lower-division baccalaureate/associate degree category, 54 semester hours in a medical laboratory technician program (hematology, immunology, immunohematology and blood banking, histopathology, mycology, virology, anatomy and physiology, cytology, parasitology, advanced clinical chemistry, advanced medical bacteriology, and advanced hematology; and basic procedures in hematology, clinical chemistry and urinalysis, immunohematology and serology, medical bacteriology, and parasitology). In the upper-division baccalaureate category, credit in medical technology, chemistry, and biology on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 10 semester hours in a certified laboratory assistant program. In the lower-division baccalaureate/associate degree category, 54 semester hours in a medical laboratory technician program (hematology, immunology, immunohematology and blood banking, histopathology, mycology, virology, anatomy and physiology, cytology, parasitology, advanced clinical chemistry, advanced medical bacteriology, advanced hematology; and basic procedures in hematology, clinical chemistry and urinalysis, immunohematology and serology, medical bacteriology, and parasitology), 3 in personnel supervision, and 3 in principles of administration. In the upper-division baccalaureate category, credit in medical technology, chemistry, biology, and medical facility management on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 50

In the vocational certificate category, 10 semester hours in a certified laboratory assistant program. In the lower-division baccalaureate/associate degree category, 54 semester hours in a medical laboratory technician program (hematology, immunology, immunohematology and blood banking, histopathology, mycology,

virology, anatomy and physiology, cytology, parasitology, advanced clinical chemistry, advanced medical bacteriology, advanced hematology, and basic procedures in hematology, clinical chemistry and urinalysis, immunohematology and serology, medical bacteriology, and parasitology), 3 in personnel supervision, and 3 in principles of administration. In the upper-division baccalaureate category, credit in medical technology, chemistry, biology, and medical facility management on the basis of institutional evaluation (6/77).

MOS-92B-003

MEDICAL LABORATORY SPECIALIST

92B10

92B20

92B30

92B40

92B50

Exhibit Dates: 6/92-12/94. (Effective 12/94, MOS 92B was discontinued, and its duties were incorporated into MOS 91K.)

Career Management Field: 91 (Medical).

Description

Summary: Performs laboratory procedures and elementary and advanced examinations of biological and environmental specimens to aid in diagnosis, treatment, and prevention of disease. *Skill Level 10:* Receives, logs, and files requests for laboratory examination and analysis; receives, collects, and labels specimens; assembles and prepares supplies, equipment, reagents, and various types of glassware, and calculates and records results of analyses; performs formalin ether fecal concentrations and examines concentrate for presence of parasites; prepares thick and thin blood smears, performs giemsa stain techniques, and examines smear for presence of plasmodium species; determines ABO group and Rh type of blood specimens; performs direct and indirect antihuman globulin procedures; performs microhematocrit, manual hemoglobin procedures, and manual white blood cell counts; prepares thin blood film slides and performs Wright's stain procedure; examines blood films to enumerate normal leukocytes and confirms normal erythrocyte morphology; performs erythrocyte sedimentation rate procedures; determines urine-specific gravity and performs chemical tests on urine to detect glucose, Bence-Jones protein, blood, ketones, mucin, or melanogen; determines urine pH; concentrates urine for microscopic examination and identifies squamous epithelial cells, white blood cells, red blood cells, cast, and mucous threads in urine; inoculates bacteriological smears by gram stain technique; examines smears for stain reaction limited to gram, positive/negative rods/cocci and prepares and sterilizes culture media; performs manual biochemical determinations on blood, limited to glucose, area nitrogen, CO2 bilirubin, and titrimetric fluoride; performs semiautomated determinations on chlorides, sodium, and potassium; performs basic serological screening tests for syphilis and rheumatoid arthritis; performs preventive maintenance on laboratory equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; collects and processes specimens for shipments to consultant laboratories; screens, selects, pretests, determines ABO group and pH type, and bleeds donors; stores and issues blood; performs immunohematology procedures such as anti-

body titers and compatibility testing, prepares and stores blood and blood components such as packed cells and plasma packs; performs ABO subgrouping and DU testing and detects presence of antibodies; performs hematology tests and determinations such as complete blood count, differential and cell counts of body fluids, and thrombocyte counts; performs coagulation tests such as prothrombin and partial thromboplastin time; uses automated, semiautomated, or manual procedures to conduct basic biochemical procedures such as tests for enzyme determination, cholesterol, total protein and A/G ratio, blood pH, pO2, and pCO2; performs basic serology procedures such as tests for syphilis, pregnancy, infectious mononucleosis, and arthritis; prepares red cell suspensions and dilutions; examines body fluids and feces for presence of protozoa, helminths, and extraintestinal parasites; prepares and sterilizes culture media and inoculates specimens into media; prepares and stains smears for microscopic examination; isolates, identifies, and studies microorganisms such as streptococcus, staphylococcus, pneumococcus, and common gram negative organisms. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises operator maintenance on assigned equipment; supervises procedures to enable the unit to function in toxic environment; supervises packing, unpacking, loading, unloading, and setting up unit equipment and shelters; performs complex laboratory tests, examinations, and analyses under general supervision and provides technical assistance to subordinates; performs culture and antimicrobial sensitivity determinations including those taken from autopsies to isolate and identify microorganisms; performs clinical parasitology procedures related to life cycles, epidemiology, identification, and concentration of parasites in blood, feces, and body fluids; performs fluorescent antibody agglutination, complement fixation, and other serological tests for febrile, viral, rickettsial, syphilitic, parasitic, and mycotic infections; processes tissue removed by biopsy, from autopsy, or discharged from the body by fixing the tissue in preservative, dehydrating, embedding, sectioning, staining, and mounting on slides; performs biochemical analyses of blood, urine, sweat, spinal fluid, and tissue for carbohydrates, proteins, hemoglobin, lipids, hormones, minerals, electrolytes, vitamins, enzymes, pigments, and drugs; performs metabolic, liver, and renal function tests; determines total bases, acidbase balance, and blood gases in blood; identifies blood cell maturation stages in normal and abnormal cells; performs special procedures in staining and preparing bone marrow smears, erythrocyte osmotic fragility studies, lupus erythematosus determinations, detection of coagulation disorders, complex electrophoresis studies, and abnormal cell morphology in anemias and leukemias; analyzes air, water, food, and biological fluids for contaminants. *Skill Level 40:* Able to perform the duties required for Skill Level 30; develops and supervises quality control measures and procedures; establishes work priorities; organizes work schedules and assigns duties; instructs subordinates in work techniques and procedures; inspects laboratory to ensure orderly, clean, and safe working environment; supervises operation maintenance program of laboratory equipment; determines personnel requirements and prepares and conducts training programs; evaluates personnel

requirements and prepares and conducts training programs; evaluates personnel performance and counsels personnel; prepares evaluation reports; prepares administrative, technical, and personnel reports; coordinates activities of medical laboratory with other elements of the medical treatment facility; advises and assists laboratory officer in professional matters, supply economy procedures, and fiscal, technical, and administrative matters; establishes stock levels and supervises the requisitioning, storage, and issue of supplies and equipment. NOTE: May progress to 92B40 from 92B30 or 01H30, Biological Sciences Assistant. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises large medical laboratory activities; prepares reports and determines personnel requirements. NOTE: May progress to 92B50 from 92B40 or 92E40, Cytology Specialist.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 5 semester hours in clinical laboratory procedures, 5 in laboratory instrumentation, and 3 in personnel supervision (6/92).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 5 semester hours in clinical laboratory procedures, 5 in laboratory instrumentation, 5 in advanced clinical laboratory procedures, 3 in personnel supervision, and 2 in records and information management (6/92).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 5 semester hours in clinical laboratory procedures, 5 in laboratory instrumentation, 5 in advanced clinical laboratory procedures, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (6/92).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 5 semester hours in clinical laboratory procedures, 5 in laboratory instrumentation, 5 in advanced clinical laboratory procedures, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if paygrade E-9 has been attained, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (6/92).

MOS-92E-001

CYTOLOGY SPECIALIST

92E20
92E30
92E40

Exhibit Dates: 1/90–12/94. Effective 12/94, MOS 92E was discontinued, and its duties were incorporated into MOS 91K.

Career Management Field: 91 (Medical).

Description

Summary: Provides professional support and service to pathologists by supervising or per-

forming diagnostic cytology services and rendering diagnoses. *Skill Level 20:* Logs, processes, and examines a variety of cellular samples of tissues and body fluids and renders diagnoses; examines microscope slides containing cells and processes cytological specimens from vagina and cervix, pleural fluid, gastric juice, bronchial washings, ascitic fluid, spinal fluid, prostatic fluid or needle aspiration, breast secretions or aspirates, urine, sputum, buccal smears, other body secretions, excretions, or scrapings, bones, and soft tissue tumors; identifies a variety of cell types from various parts of body and interprets morphological abnormalities; interprets variations that fall within normal limits and subtle variations in gross and microscopic appearance of cytological specimens and correlates clinical history with microscopic findings; evaluates and interprets cellular morphological changes associated with infectious processes, including viral, bacterial, fungal, and parasitic diseases; identifies organisms where possible on morphological basis; interprets endocrinological states including both normal variations and abnormal conditions as shown by cellular reactions; evaluates cellular changes brought about by radiation, drugs, and other forms of therapy; applies knowledge of carcinogenesis to interpretation of premalignant and malignant cellular changes; recognizes and reports a wide variety of neoplasms including both epithelial and mesodermal; differentiates between carcinoma-in-situ and invasive squamous carcinoma; classifies and grades neoplasm according to current classification schemes; determines, where possible, whether neoplasm is primary or metastatic; prepares written diagnostic reports on all cases based on correlation of clinical data with results for cytological study; includes interpretation of benign versus malignant, classification or grade of neoplasm, and recommendations for the need of further diagnostic procedures in these reports; assists in, selects, and advises on proper mode of collection of cytological specimens; recognizes and evaluates departures from expected performance norms and determines and accomplishes necessary actions for correcting procedural deficiencies; examines specimens describing color, viscosity, amount, and specific gravity; determines, selects, and smears portions of the specimen that may have particular pathological significance; prepares cell blocks for transmittal to histology; prepares cytocentrifuge preparations; stains and coverslips specimens; selects and performs quality control procedures; performs routine histology procedures; inspects, cleans, adjusts, and calibrates laboratory equipment; receives, unpacks, inspects, and stores supplies and equipment; maintains statistics and compiles monthly reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance to subordinates; supervises small cytology section; inspects laboratory to ensure orderly, clean, and safe environment; organizes work schedules and assigns duties; instructs subordinates in work techniques and procedures; evaluates personnel performances and counsels personnel; prepares evaluation reports; establishes and maintains teaching file of interesting or unusual cases; implements and conducts in-service and performance-oriented training programs; evaluates and initiates new procedures; performs advanced cytological procedures including chromosomal analysis by karyotyping; establishes and administers pro-

gram for correlation of cytological diagnosis with histological findings; reports findings to pathologist; reviews findings with pathologist; advises and assists in administrative, fiscal, personnel, and supply matters; prepares administrative, technical, and personnel reports; requisitions, safeguards, issues, and monitors effective utilization of supplies and equipment; establishes report control system; prepares and reviews correspondence; supervises maintenance of office files and technical library; supervises operational and preventive maintenance program for assigned equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises medium-sized and large cytology laboratories; develops and supervises quality control program; participates in training of resident physicians in pathology; reviews and consolidates reports.

Recommendation, Skill Level 20

In the upper-division baccalaureate category, 4 semester hours in introduction to cytology, 3 in female genital tract (benign), 4 in female genital tract (malignant), 2 in respiratory tract cytology, 2 in gastrointestinal tract cytology, 3 in central nervous system and effusion, 2 in urinary tract cytology, 3 in fine needle aspiration cytology, 2 in research, 18 for clinical experience, and 1 in organizational management (3/90).

Recommendation, Skill Level 30

In the upper-division baccalaureate category, 4 semester hours in introduction to cytology, 3 in female genital tract (benign), 4 in female genital tract (malignant), 2 in respiratory tract cytology, 2 in gastrointestinal tract cytology, 3 in central nervous system and effusion, 2 in urinary tract cytology, 3 in fine needle aspiration cytology, 2 in research, 24 for clinical experience, 3 in organizational management, and 3 in laboratory administration (3/90).

Recommendation, Skill Level 40

In the upper-division baccalaureate category, 4 semester hours in introduction to cytology, 3 in female genital tract (benign), 4 in female genital tract (malignant), 2 in respiratory tract cytology, 2 in gastrointestinal tract cytology, 3 in central nervous system and effusion, 2 in urinary tract cytology, 3 in fine needle aspiration cytology, 2 in research, 24 for clinical experience, 6 in organizational management, 6 in laboratory administration, and 3 in educational methodology (3/90).

MOS-92G-001

FOOD SERVICE SPECIALIST

92G10
92G20
92G30
92G40
92G50

Exhibit Dates: Pending Evaluation. 8/95–Present.

MOS-92M-001

MORTUARY AFFAIRS SPECIALIST

92M10
92M20
92M30
92M40
92M50

Exhibit Dates: Pending Evaluation. 8/95–Present.

MOS-92R-001**PARACHUTE RIGGER**

92R10
92R20
92R30
92R40
92R50

Exhibit Dates: Pending Evaluation. 8/95-Present.

MOS-92Y-001**UNIT SUPPLY SPECIALIST**

92Y10
92Y20
92Y30
92Y40
92Y50

Exhibit Dates: 2/93-2/95.

Career Management Field: 92 (Supply and Service).

Description

Summary: Supervises or performs duties involving request, receipt, storage, issue, accountability, and preservation of expendable supplies and equipment. *Skill Level 10:* Prepares and maintains organizational supply records and forms; receives and inspects inventories for future deliveries; maintains accounting system associated with supply management; secures and controls supplies; uses computer applications in work assignments; practices general clerical procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance in areas of supply management; reviews records and information documents for accuracy and completeness; coordinates supply activities; posts transactions to organization and installation property books and supporting transaction files. *Skill Level 30:* Able to perform the duties required for Skill Level 20; uses general supervisory skills to assist others in performing supply and inventory control management duties; reviews records and documents for accuracy; recommends professional development activities for subordinates; assists and advises supply officer and commander. *Skill Level 40:* Able to perform the duties required for Skill Level 30; uses basic management skills in coordinating employee activities; coordinates logistical activities with other supply and service units and motor transport units; develops and executes training programs. *Skill Level 50:* Able to perform the duties required for Skill Level 40; uses organizational management techniques to plan, analyze, direct, and coordinate activities; supervises development and preparation of operations information, plans, maps, sketches, overlays, and related data; contributes to staff development activities and operations of supply support data systems.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management, 3 in records and information management, 3 in computer applications, 1 in personnel supervision, 2 in bookkeeping, and 3 in clerical procedures (3/95).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management, 3 in records and information management, 3 in computer applications, 3 in personnel supervision, 3 in bookkeeping, and 3 in clerical procedures. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/95).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management, 3 in records and information management, 3 in personnel supervision, 3 in bookkeeping, 3 in clerical procedures; and 3 in computer applications based on an individualized assessment of the student. In the upper-division baccalaureate category, 6 semester hours for field experience in management (3/95).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management, 3 in records and information management, 3 in personnel supervision, 3 in bookkeeping, 3 in clerical procedures; and 3 in computer applications based on an individualized assessment of the student. In the upper-division baccalaureate category, 6 semester hours in field experience in management and 3 in organizational management (3/95).

MOS-92Y-002**UNIT SUPPLY SPECIALIST**

92Y10
92Y20
92Y30
92Y40
92Y50

Exhibit Dates: 3/95-Present.

Career Management Field: 92 (Supply and Service).

Description

Summary: Supervises or performs duties involving request, receipt, storage, issue, accountability, and preservation of expendable supplies and equipment. *Skill Level 10:* Prepares and maintains organizational supply records and forms; receives and inspects inventories for future deliveries; maintains accounting system associated with supply management; secures and controls supplies; uses computer applications in work assignments; practices general clerical procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance in areas of supply management; reviews records and information documents for accuracy and completeness; coordinates supply activities; posts transactions to organization and installation property books and supporting transaction files. *Skill Level 30:* Able to perform the duties required for Skill Level 20; uses general supervisory skills to assist others in performing supply and inventory control management duties; reviews records and documents for accuracy; recommends professional development activities for subordinates; assists and advises supply officer and commander. *Skill Level 40:* Able to perform the duties required for Skill Level 30; uses basic management skills in coordinating employee activities; coordinates logistical activities with other supply and service units and motor transport units; develops and exe-

cutes training programs. *Skill Level 50:* Able to perform the duties required for Skill Level 40; uses organizational management techniques to plan, analyze, direct, and coordinate activities; supervises development and preparation of operations information, plans, maps, sketches, overlays, and related data; contributes to staff development activities and operations of supply support data systems.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (3/95).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management, 3 in records and information management, 3 in computer applications, 3 in personnel supervision, 2 in bookkeeping, and 3 in clerical procedures. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/95).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management, 3 in records and information management, 3 in personnel supervision, 3 in bookkeeping, 3 in clerical procedures; and 3 in computer applications based on an individualized assessment of the student. In the upper-division baccalaureate category, 6 semester hours for field experience in management (3/95).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management, 3 in records and information management, 3 in personnel supervision, 3 in bookkeeping, 3 in clerical procedures; and 3 in computer applications based on an individualized assessment of the student. In the upper-division baccalaureate category, 6 semester hours in field experience in management and 3 in organizational management (3/95).

MOS-92Z-001**SENIOR NONCOMMISSIONED LOGISTICIAN**

92Z50

Exhibit Dates: 2/93-Present.

Career Management Field: 92 (Supply and Service).

Description

Serves as a mid-level manager, supervising, advising, counseling, evaluating, and directing subordinates in supply and related service MOS's; assists commander in planning, supervising, inspecting, developing, and executing policy; advises commander on personnel matters; provides counsel and guidance to subordinates; coordinates administration and support services of unit activities; performs as liaison between staff and supported soldiers to manage supply, material, and such related service operations as transportation, property disposal, and commissary operations. NOTE: May have progressed to 92Z50 from 92A50 (Automated Logistical Specialist) or 92Y50 (Unit Supply Specialist).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in organizational management, 3 in logistics management, 3 in personnel management, 3 for field experience in management, and 3 communication techniques for managers (3/95).

MOS-93B-001**AEROSCOUT OBSERVER**

93B10
93B20
93B30

Exhibit Dates: 1/90–Present.

Career Management Field: 93 (Aviation Operations).

Description

Summary: Participates in aerial observation, communication, and navigation in the operation of the observation/scout helicopter (OH-58A/C). **Skill Level 10:** Develops flight plan; navigates by navigation aids or dead reckoning; locates target and determines coordinates or deviation from known point; uses map graphics to control security of operation by other units; communicates by open as well as secure means; performs as a crew member; recognizes hazards and executes evasive action; prepares situation reports relative to communication and navigation; maintains aircrew training manuals; assists pilot with visual and instrument navigation; performs aerial reconnaissance; directs close air support; relays requests for close support; formulates and transmits pilot reports relative to weather; assists in emergency procedures; is able to act as a helicopter pilot in emergencies. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises and provides technical guidance to subordinates; prepares operational maps; indicates location and deployment of enemy and friendly units; reproduces and distributes required reports. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides information for tactical deployment to the commander; supervises maintenance equipment and ammunition issues; prepares weight and balance computations; collects, evaluates, and coordinates with adjacent units; prepares and updates enemy/friendly situation map; evaluates and counsels subordinates.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in basic helicopter maneuvers and 2 in aerial navigation. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (4/90).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in basic helicopter maneuvers and 4 in aerial navigation. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (4/90).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in basic helicopter maneuvers, 4 in aerial navigation, and 3 in principles of supervision (4/90).

MOS-93C-002**AIR TRAFFIC CONTROL (ATC) OPERATOR**

93C10
93C20
93C30
93C40
93C50

Exhibit Dates: 1/90–7/95.

Career Management Field: 93 (Aviation Operation).

Description

Summary: Provides both radar and nonradar air traffic control services for military and civilian air traffic during takeoff, flight, and landing under Visual Flight Rules (VFR), Special Visual Flight Rules (SVFR), and Instrument Flight Rules (IFR). **Skill Level 10:** Controls takeoffs, flight, and landing of IFR/VFR/SVFR air traffic; provides flight following, enroute route, terminal approach control, and ground controlled approach services; operates radar; installs and moves ATC radar and associated equipment; applies FAA and Army air traffic rules and regulations; may hold an FAA radar controller certificate; issues special air traffic control instructions to aviators concerning airfield facilities, emergency landing areas, obstructions, landmarks, flying areas, restrictions, local regulations, weather advisories, and observed hazards that affect the safe operation of aircraft; keeps records and statistics, including tape recordings of voice radio communications, on daily air traffic operations; processes incoming and outgoing flight data information and analyzes air traffic; operates airfield lighting systems, light signals, and nonradar approach control boards; employs aeronautical charts, maps, radio, and ground communications; applies FAA and Army air traffic rules and regulations and holds an FAA control tower operator certificate; controls vehicular traffic on airport movement area. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates. **Skill Level 30:** Able to perform the duties required for Skill Level 20; serves as shift supervisor or facility chief; supervises inspection procedures, site operation, and record keeping; prepares shift duty rosters; administers facility training program and on-the-job training. **Skill Level 40:** Able to perform the duties required for Skill Level 30; as ATC tower chief, plans, organizes, and supervises air traffic control tower activities; assigns duties; spot-checks work performed; instructs subordinates in work techniques and procedures; coordinates work activities; establishes and supervises on-the-job training programs; prepares technical, personnel, and administrative reports; monitors the handling and storage of tape-recorded conversations between air traffic control personnel and aircraft pilots; maintains records and statistics on daily air traffic operations. **Skill Level 50:** Able to perform the duties required for Skill Level 40; supervises all air traffic control operations in a large facility; assigns personnel; establishes physical layout of work sites and ensures an efficient and safe environment; reviews, consolidates, and prepares technical, personnel, and administrative reports covering all phases of air traffic control operations.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic

control, 6 in air traffic management, and 3 in federal regulations. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (4/90).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, and 3 in federal regulations. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (4/90).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal regulations, and 3 in principles of supervision (4/90).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal regulations, and 3 in principles of supervision. In the upper-division baccalaureate category, 3 semester hours in organizational management, 3 for field experience in management, and 6 in air traffic operations (4/90).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal regulations, and 3 in principles of supervision. In the upper-division baccalaureate category, 3 semester hours in organizational management, 6 for field experience in management, and 6 in air traffic operations (4/90).

MOS-93C-003**AIR TRAFFIC CONTROL OPERATOR**

93C10
93C20
93C30
93C40

Exhibit Dates: Pending Evaluation. 8/95–Present.

MOS-93D-001**AIR TRAFFIC CONTROL EQUIPMENT REPAIRER**

(Air Traffic Control Systems, Subsystems and Equipment Repairer)

93D10
93D20
93D30
93D40
93D50

Exhibit Dates: 1/90–Present.

Career Management Field: 93 (Aviation Operations).

Description

Summary: Installs and performs maintenance on air traffic control communications equipment, navigational aids, and landing systems. **Skill Level 10:** Installs air traffic control and navigation aids; troubleshoots to locate equipment malfunctions; tests, aligns, and adjusts equipment; completes maintenance records; maintains spare parts and tools; makes checks and adjustments to associated avionic components; updates and uses technical manuals and trouble analysis charts; replaces faulty components and individual parts. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subor-

minates, performs comparison checks and modifications to equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20, provides technical guidance and instruction to subordinates; assists in the establishment of production and quality control procedures; inspects work areas and maintenance equipment; assists in the diagnosis of complex malfunctions and in component modifications. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises maintenance procedures and practices; conducts training programs for unit personnel; interprets and explains complex specifications, circuits, and schematic and wiring diagrams; diagnoses and determines the cause of unusual equipment malfunctions; prepares technical reports; coordinates maintenance certification programs. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises and evaluates maintenance and installation procedures and practices; assists in logistical appraisal of air traffic control systems; develops policies and procedures for unit management and determines the effectiveness of unit maintenance performance; supervises maintenance certification programs.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in advanced electronics laboratory and 2 in navigation/communications systems. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (7/87).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in advanced electronics laboratory, 3 in navigation/communications systems, and 3 in instrument landing systems. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in advanced electronics laboratory, 3 in navigation/communications systems, and 3 in instrument landing systems (7/87).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in advanced electronics laboratory, 3 in navigation/communications systems, 3 in instrument landing systems, 3 in personnel supervision, and 2 in records administration. In the upper-division baccalaureate category, 3 semester hours in principles of management and 3 for field experience in management (7/87).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in advanced electronics laboratory, 3 in navigation/communications systems, 3 in instrument landing systems, 3 in personnel supervision, and 3 in records administration. In the upper-division baccalaureate category, 3 semester hours in principles of management, 3 for field experience in management, and 3 in applied psychology (7/87).

MOS-93F-003

FIELD ARTILLERY METEOROLOGICAL CREWMEMBER
93F10
93F20
93F30
93F40

Exhibit Dates: 1/90-2/95

Career Management Field: 13 (Field Artillery)

Description

Summary: Supervises or participates in operation of field artillery meteorological observation station. *Skill Level 10:* Operates meteorological equipment in meteorological observation station; participates in assembly and emplacement of meteorological equipment and associated generators; operates recorders; tabulates pressure and wind data; assembles, operates, and disassembles balloon inflation and launching equipment; installs, tests, and adjusts radio weather instrument (Rawin) sets and radiosonde transmitters; operates computer that converts raw temperature, pressure, and wind velocities to digital data that presents temperature, density, and wind profiles; performs operator maintenance on equipment; has experience in use of rifle, grenade launcher, and machine gun; installs and operates digital and voice radio communications equipment; drives vehicles under adverse conditions. *Skill Level 20:* Able to perform the duties required for Skill Level 10; employs applicable navigation aids to derive correct location; uses maps to best advantage; performs operational checks on Rawin set; is proficient in basic combat techniques; instructs subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as team chief during periods of extended operation; writes reports; checks data for quality control; makes operational checks on equipment; operates communications equipment; encodes and decodes meteorological data; serves as instructor and counselor to subordinates. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises operation of meteorological section or station; selects station sites; supervises emplacement, calibration, maintenance, and operation of equipment; supervises preparation and distribution of ballistic meteorological messages; assigns, instructs, and supervises crew members; reviews, consolidates, and prepares technical, personnel, and administrative reports; counsels subordinates.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in general meteorology and 3 in meteorological instrumentation. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/89).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in general meteorology, 3 in meteorological instrumentation, 1 in technical writing, 1 in map reading, and 2 in meteorological observation (6/89).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in general meteorology, 3 in meteorological instrumentation, 3 in technical writing, 1 in map reading, 2 in meteorological observation, and 3 in principles of supervision (6/89).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in general meteorology, 3 in meteorological instrumentation, 3 in technical writing, 1 in map reading, 2 in meteorological observation, and 3 in principles of supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (6/89).

MOS-93F-004

FIELD ARTILLERY METEOROLOGICAL CREWMEMBER
93F10
93F20
93F30
93F40

Exhibit Dates: 3/95-Present.

Career Management Field: 13 (Field Artillery).

Description

Summary: Supervises or participates in operation of field artillery meteorological observation station. *Skill Level 10:* Operates meteorological equipment in meteorological observation station; participates in assembly and emplacement of meteorological equipment and associated generators; operates recorders; tabulates pressure and wind data; assembles, operates, and disassembles balloon inflation and launching equipment; installs, tests, and adjusts radio weather instrument (Rawin) sets and radiosonde transmitters; operates computer that converts raw temperature, pressure, and wind velocities to digital data that presents temperature, density, and wind profiles; performs operator maintenance on equipment; has experience in use of rifle, grenade launcher, and machine gun; installs and operates digital and voice radio communications equipment; drives vehicles under adverse conditions. *Skill Level 20:* Able to perform the duties required for Skill Level 10; employs applicable navigation aids to derive correct location; uses maps to best advantage; performs operational checks on Rawin set; is proficient in basic combat techniques; instructs subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as team chief during periods of extended operation; writes reports; checks data for quality control; makes operational checks on equipment; operates communications equipment; encodes and decodes meteorological data; serves as instructor and counselor to subordinates. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises operation of meteorological section or station; selects station sites; supervises emplacement, calibration, maintenance, and operation of equipment; supervises preparation and distribution of ballistic meteorological messages; assigns, instructs, and supervises crew members; reviews, consolidates, and prepares technical, personnel, and administrative reports; counsels subordinates.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (6/89).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (6/89).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in general

meteorology, 3 in meteorological instrumentation, 1 in technical writing, 1 in map reading, 2 in meteorological observation, and 3 in principles of supervision (6/89).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in general meteorology, 3 in meteorological instrumentation, 3 in technical writing, 1 in map reading, 2 in meteorological observation, and 3 in principles of supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in personnel management (6/89).

MOS-93P-002

AVIATION OPERATIONS SPECIALIST

93P10
93P20
93P30
93P40
93P50

Exhibit Dates: 1/90–Present.

Career Management Field: 93 (Aviation Operation).

Description

Summary: Schedules, clears, and dispatches aircraft. *Skill Level 10:* Processes cross-country and local flight plans with other agencies including the FAA; maintains flight information; prepares, types, and maintains records and reports on flight operations and activities; maintains current files on flying regulations and navigational aid information; arranges ground services for transient aircraft; interprets and posts teletype weather reports; understands terminology used in air navigation; is aware of air traffic control advisory procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises a small flight operations activity consisting of 5 to 12 subordinates; schedules aircraft missions, dispatches aircraft, and performs associated administrative duties; plans and schedules work assignments; checks work of subordinates and instructs them in proper work techniques and procedures; reviews, consolidates, and prepares technical, personnel, and administrative reports; assists in preparing preaccident plans. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a medium-sized flight operations activity consisting of 13 or more subordinates; provides technical guidance to subordinates; supervises the preparation of situation map; prepares operations letters; assists administratively in aircraft accident investigations; assists in the preparation of letters of agreement, operations estimates, and operations orders. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a large flight operations activity; plans, coordinates, and supervises activities pertaining to organization, training, combat operations, and combat intelligence; coordinates implementation of operations, training programs, and communication activities. **NOTE:** May have progressed to 93P40 from 93P30 or 93B30, Aeroscout Observer. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as a mid-level manager; supervises the processing of operations and intelligence information at the brigade level.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to aircraft dispatching, 3 in aircraft operations management, 3 in federal aviation regulations, and 2 in office procedures. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (4/90).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to aircraft dispatching, 3 in aircraft operations management, 3 in federal aviation regulations, 2 in office procedures, and 3 in principles of supervision. In the upper-division baccalaureate category, 3 semester hours in aviation management. (**NOTE:** This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (4/90).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to aircraft dispatching, 3 in aircraft operations management, 3 in federal aviation regulations, 2 in office procedures, 3 in principles of supervision, 3 in airfield management, and 3 in advanced aircraft dispatching. In the upper-division baccalaureate category, 3 semester hours in aviation management and 2 in organizational management (4/90).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to aircraft dispatching, 3 in aircraft operations management, 3 in federal aviation regulations, 2 in office procedures, 3 in principles of supervision, 3 in airfield management, and 3 in advanced aircraft dispatching. In the upper-division baccalaureate category, 3 semester hours in aviation management, 3 in organizational management, 3 in air traffic operations, and 3 for field experience in management (4/90).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to aircraft dispatching, 3 in aircraft operations management, 3 in federal aviation regulations, 2 in office procedures, 3 in principles of supervision, 3 in airfield management, and 3 in advanced aircraft dispatching. In the upper-division baccalaureate category, 3 semester hours in aviation management, 3 in organizational management, 3 in air traffic operations, and 6 for field experience in management (4/90).

MOS-94B-003

FOOD SERVICE SPECIALIST

94B10
94B20
94B30
94B40
94B50

Exhibit Dates: 1/90–3/94.

Career Management Field: 94 (Food Service).

Description

Summary: Procures, prepares, and cooks food; identifies and uses appropriate equipment. *Skill Level 10:* Either has undergone on-the-job training program in food preparation and serving techniques or has recently completed a pro-

gram of instruction in the basic principles of food preparation and service; under the supervision of an experienced cook, weighs, blends, mixes, and cooks food in accordance with prescribed procedures; washes, peels, cuts, and dices fruits, vegetables, meats, salads, and dairy products; prepares simple soups, sauces, and gravies; under the supervision of an experienced baker, prepares simple baked items, including breadstuffs and desserts; assists in receiving and storing food and supplies; operates and performs preventive maintenance on food service equipment; portions and serves food on serving lines; applies sanitation procedures in handling, storing, preparing, and serving food. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides guidance to subordinates; prepares meats, fruits, vegetables, salads, desserts, beverages, and dairy products for serving; performs small-scale baking and meat cutting; operates and performs preventive maintenance on kitchen equipment; applies hygiene and sanitation procedures. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises, as first cook, the scheduling of personnel and facilities and the preparation of food; inspects food prior to serving; supervises procurement and storage of foods; alternative job paths are available with assignment either as cook (leading to dining facility manager) or as meat cutter (leading to chief meat cutter). *Skill Level 40:* Able to perform the duties required for Skill Level 30; develops work sheet according to master menu; maintains records and files; applies accounting procedures to operate within budget; prepares reports; serves as dining facilities manager. *Skill Level 50:* Able to perform the duties required for Skill Level 40; has management responsibilities at the staff level including developing plans and conducting evaluations; develops, coordinates, implements, and advises on food programs; evaluates operation of dining and serving areas, kitchens, field bakeries, and food service training facilities and maintenance of equipment; is a member of the menu board; assists in menu development; may be in complete charge of food service operations during partial unit deployment or at a large facility with multiple food service outlets; prepares reports and studies on food service activities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in quantity food preparation, 1 in kitchen operations, and 1 in food service operations. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (11/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in kitchen operations, and 1 in food service operations (11/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in kitchen operations, 3 in personnel supervision, 3 for field experience in food service, and 1 in food service operations; if the duty assignment was cook, 2 semester hours in food service operations; if the duty assignment was meat cutter, 3 semester hours in meat cutting (11/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in kitchen operations, 3 in personnel supervision, 3 in human relations, 3 for field experience in food service, and 1 in food service operations; if the duty assignment was cook, 2 semester hours in food service operations; if the duty assignment was meat cutter, 3 semester hours in meat cutting (11/77).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in kitchen operations, 3 in personnel supervision, 3 in human relations, 3 in report writing, 3 in communication skills (oral), 3 for field experience in food service, and 1 in food service operations; if the duty assignment was cook, 2 semester hours in food service operations; if the duty assignment was meat cutter, 3 semester hours in meat cutting. In the upper-division baccalaureate category, 6 semester hours for a food service internship (11/77).

MOS-94B-004**FOOD SERVICE SPECIALIST**

94B10
94B20
94B30
94B40
94B50

Exhibit Dates: Pending Evaluation. 4/94-12/95.

MOS-94F-002**HOSPITAL FOOD SERVICE SPECIALIST**

94F10
94F20
94F30
94F40
94F50

Exhibit Dates: 1/90-3/91. Effective 3/91, MOS 94F was discontinued, and its duties were incorporated into MOS 91M, Hospital Food Service Specialist.

Career Management Field: 94 (Food Service).

Description

Summary: Assists in the planning and implementation of the food service program in hospitals; prepares, cooks, and serves food to patients and staff. **Skill Level 10:** Measures, weighs, blends, and mixes various foodstuffs; roasts, fries, broils, boils, and stews meats; prepares fruits, vegetables, salads, desserts, beverages, and dairy products; bakes yeast breads, quick breads, pies, cakes, and cookies; sets up and serves regular and modified diets for patients; assembles and checks patient trays; instructs patients on modified diets to aid them in food selection; maintains records as to patient food preferences and diet changes and adjusts diet menus; prepares food in accordance with instructions from dietician or physician; performs preventive maintenance on kitchen equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; ensures adherence to procedures, temperatures, and time periods in food preparation; writes and adjusts individual standard diet menus; participates in planning of food service activities; conducts food acceptability studies; applies storage

standards, completes food production forms and records; monitors tasks in support of patient tray service operation, including preparation, assembly, and delivery to wards. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises food production or diet therapy activities in a hospital; plans and prepares hospital menus for regular and modified diets and estimates the number of persons to be fed; schedules and supervises food preparation for compliance with dietetic requirements and for quality and quantity standards; inspects prepared food for palatability and appearance and to determine compliance with menus and recipes; inspects hospital food service facilities and initiates appropriate corrective action to correct deficiencies; supervises procurement, storage, distribution, accounting for, and serving of food in a hospital food service; conducts classroom and on-the-job training for subordinates. **Skill Level 40:** Able to perform the duties required for Skill Level 30; performs supervisory duties; develops, coordinates, implements, and advises on food programs; evaluates and designs improvements in food programs and training programs; assists in preparation of hospital food service budget. **Skill Level 50:** Able to perform the duties required for Skill Level 40; prepares budget and determines financial requirements; instructs military and civilian personnel; applies office management techniques; advises superiors on food service equipment layout and space design.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in nutrition, 2 in diet therapy, and 1 in food service administration and sanitation (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in nutrition, 3 in kitchen operations, 2 in diet therapy, and 1 in food service administration and sanitation (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in nutrition, 3 in kitchen operations, 2 in diet therapy, 2 in personnel supervision, 1 in food service administration and sanitation, and additional credit in menu planning, food service operation, and for a food service internship on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in bookkeeping. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in nutrition, 3 in kitchen operations, 3 in personnel supervision, 3 in human relations, 2 in diet therapy, 1 in food service administration and sanitation, and additional credit in menu planning, food service operation, and for a food service internship on the basis of institutional evaluation. In the upper-division baccalaureate category, credit for a food service internship on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 50

In the vocational certificate category, 2 semester hours in bookkeeping. In the lower-division baccalaureate/associate degree cate-

gory, 6 semester hours in quantity food preparation, 3 in nutrition, 3 in kitchen operations, 3 in personnel supervision, 3 in human relations, 2 in diet therapy, 1 in accounting, 1 in food service administration and sanitation, and additional credit in menu planning, food service operations, and for a food service internship on the basis of institutional evaluation. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in food service equipment layout design, and additional credit in introduction to management, industrial arts (food service), and diet therapy on the basis of institutional evaluation (6/77).

MOS-95B-004**MILITARY POLICE**

95B10
95B20
95B30
95B40
95B50

Exhibit Dates: 1/90-Present.

Career Management Field: 95 (Law Enforcement).

Description

Summary: Supervises or provides law enforcement; preserves military control; provides security; controls traffic; quells disturbances; protects property and personnel; handles prisoners of war, refugees, or evacuees; investigates incidents. **Skill Level 10:** Enforces traffic regulations and law and order; exercises military control and discipline and guards prisoners of war; responsible for traffic accident investigation; provides physical security for designated individuals, installations, facilities, and equipment; maintains traffic control and enforces traffic regulations and safety; participates in civil disturbances and riot control operations; responsible for law enforcement investigations; performs foot and motorized patrol and applies crime prevention measures; prepares military police reports including sworn statements and processes evidence. **Skill Level 20:** Able to perform the duties required for Skill Level 10; leads military police patrol, small squad, and small detachment; supervises compound or work project; coordinates MP activities with civil police organizations; directs MP activities to quell disturbances and cope with disasters; supervises traffic safety activity and riot and crowd control; prepares reports, forms, and records on MP operations and activities. **Skill Level 30:** Able to perform the duties required for Skill Level 20; leads military police squad, medium-sized section, detachment, or platoon; assists in planning, organizing, directing, supervising, training, coordinating, and reporting activities of subordinates; organizes work schedules, assigns duties, and instructs personnel in techniques and procedures; evaluates personnel performance. **Skill Level 40:** Able to perform the duties required for Skill Level 30; leads large military police detachment, section, or platoon; collects offensive and defensive intelligence information and trains personnel in police operations and intelligence activities; assists in coordinating and implementing military police operations, training programs, and communication activities; assists in production and administration of staff journals, files, records, and reports. **Skill Level 50:** Able to perform the

duties required for Skill Level 40; provides staff supervision or principal noncommissioned officer (NCO) direction to units engaged in military police or criminal investigation operations and confinement facilities; may have served as the principal NCO of a military police unit; determines requirements for police support; evaluates training programs and requirements.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in patrol operations. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (11/86).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in patrol operations. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (11/86).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in patrol operations, 3 in police supervision, and 3 in a law enforcement elective (11/86).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in patrol operations, 3 in police supervision, 3 in a law enforcement elective, and 3 in office records management. In the upper-division baccalaureate category, 3 semester hours in principles of management (11/86).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in patrol operations, 3 in police supervision, 3 in a law enforcement elective, and 3 in office records management. In the upper-division baccalaureate category, 3 semester hours in principles of management and 3 in introduction to public administration (11/86).

MOS-95C-002

CORRECTIONS SPECIALIST

(Corrections NCO)

95C20

95C30

95C40

95C50

Exhibit Dates: 1/90–Present.

Career Management Field: 95 (Law Enforcement).

Description

Summary: Functions as a correctional officer, providing rehabilitative, health, welfare, and security services to prisoners within a correctional facility; conducts inspections; prepares written reports; coordinates activities of inmates and staff personnel. **Skill Level 20:** Functions as a correctional officer; provides individual counseling and guidance to prisoners within a rehabilitative program. **Skill Level 30:** Able to perform the duties required for Skill Level 20; functions as a first-line supervisor of up to ten correctional officers; prepares or reviews reports and records of individuals and programs; provides formal counseling. **Skill Level 40:** Able to perform the duties required for Skill Level 30; as a mid-level manager, supervises and coordinates all correctional, custodial, treatment, and rehabilitative activities of inmates and up to 100 staff members in correc-

tional facility containing as many as 250 prisoners; responsible for administrative inspection and review of all records, reports, and activities; furnishes recommendations to superiors regarding clemency, restoration to duty, and further treatment of inmates; advises superior on matters concerning subordinates. **Skill Level 50:** Able to perform the duties required for Skill Level 40; supervises and coordinates inmate and staff activities in a large consolidated correctional facility; as an administrator, plans, coordinates, and implements all counseling, rehabilitative, and correctional programs in a permanent facility containing 250 or more prisoners; equivalent to a federal maximum-security prison warden.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in correctional operations. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (11/86).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in correctional operations, 3 in correctional supervision, and 3 in a criminal justice elective (11/86).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in correctional operations, 3 in correctional supervision, 3 in a criminal justice elective, and 3 in correctional administration. In the upper-division baccalaureate category, 3 semester hours in principles of management (11/86).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in correctional operations, 3 in correctional supervision, 3 in a criminal justice elective, and 3 in correctional administration. In the upper-division baccalaureate category, 3 semester hours in principles of management and 3 in introduction to public administration (11/86).

MOS-95D-003

CID SPECIAL AGENT

95D20

95D30

95D40

95D50

Exhibit Dates: 1/90–Present.

Career Management Field: 95 (Law Enforcement).

Description

Summary: Supervises or conducts investigations of incidents, offenses, and allegations of criminality. **Skill Level 20:** Assists in investigations of incidents, offenses, and allegations of criminality; under close supervision, performs duties shown for MOS 95D30. **Skill Level 30:** Able to perform the duties required for Skill Level 20; conducts investigations of incidents, offenses, or allegations of criminality; applies laws governing investigation, search, and apprehension; photographs and sketches crime scenes and takes investigative notes; interviews/interrogates witnesses, suspects, subjects, and victims of crimes, obtaining necessary statements/confessions and/or polygraph examinations; analyzes evidence, laboratory findings, and statements relating to investigations; testifies before courts-martial

and other tribunals; examines crime scenes for evidence such as fingerprints, bloodstains, weapons, footprints, documents, and other trace evidence; collects, preserves, and tags evidence including suspected drugs and determines need for crime laboratory analysis and identification; conducts surveillance, searches of premises, and lineups associated with investigations of allegations of criminality; conducts crime prevention surveys on nonlogistic facilities and operations; prepares chronology of investigative activities, investigative reports, and action records relating to incidents, offenses, and allegations of criminality. **Skill Level 40:** Able to perform the duties required for Skill Level 30; provides technical guidance and assistance to subordinates; reviews completed cases and processes evidence; maintains chain of custody accountability for evidence gathered during investigations; preserves and safeguards evidence in order to meet court admissibility standards; assists in conduct of crime prevention surveys of logistic facilities and operations; supervises general administrative functions and personnel engaged in investigative support activities; reviews reports and records relating to investigative activity for administrative accuracy and sufficiency; maintains investigative complaint log, status board, and suspense system; prepares periodic and special reports concerning assigned personnel and investigative activity and develops statistical data; monitors criminalistics field tests of newly-acquired investigative equipment; coordinates implementation of new investigative techniques; determines equipment needs of operational elements; prepares unit training program; supervises word processing center; supervises administrative and supply personnel; evaluates personnel performance; counsels personnel; prepares evaluation reports. **Skill Level 50:** Able to perform the duties required for Skill Level 40; provides investigative support in central headquarters; manages general administrative functions and personnel engaged in investigative support activities; determines equipment and budgetary needs of operational elements; prepares and provides unit training programs and instruction.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in criminal investigation, 3 in introduction to criminal justice, 3 in police organization and administration, 3 in principles of criminal evidence, and 3 in technical report writing. (NOTE: This recommendation for skill level 20 is valid for the dates 1/90-2/95 only) (9/81).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in criminal investigation, 3 in introduction to criminal justice, 3 in police organization and administration, 3 in principles of criminal evidence, and 3 in technical report writing (9/81).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in criminal investigation, 3 in introduction to criminal justice, 3 in police organization and administration, 3 in principles of criminal evidence, 3 in technical report writing, 4 in introduction to criminalistics (including laboratory), 3 in crime and delinquency, and 3 in personnel supervision (9/81).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in criminal investigation; 3 in introduction to criminal justice; 3 in police organization administration; 3 in principles of criminal evidence; 3 in technical report writing; 4 in introduction to criminalistics (including laboratory); 3 in crime and delinquency; and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in crime prevention and control; 3 in principles of management; and 3 in resource management (9/81).

MOS-96B-002**INTELLIGENCE ANALYST**

96B10

96B20

96B30

96B40

96B50

Exhibit Dates: 1/90-9/91.

Career Management Field: 96 (Military Intelligence); subfield 962 (Technical Intelligence Production).

Description

Summary: Assembles, integrates, analyzes, and disseminates intelligence information collected from tactical, strategic, and technical sources; analyzes intelligence information and serves as a country or geographic area specialist; may function as censor, editor, mail examiner, or file clerk. *Skill Level 10:* Processes incoming reports and messages; assists in maintaining intelligence records, files, and situation maps; assists in preparation of consolidated reports, maps, overlays, and aerial photographs; proofreads and assembles individual intelligence reports; safeguards classified information; assists in integration of information. *Skill Level 20:* Able to perform the duties required for Skill Level 10; analyzes intelligence holdings and identifies intelligence collection requirements; assists in coordination with technical intelligence personnel and preparation of reports on captured enemy material; prepares drafts of intelligence reports; reads maps. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance to subordinates; supervises receipt, analysis, and storage of intelligence information; completes, edits, and disseminates intelligence reports; assists in conducting intelligence training programs; assists in establishing personnel security; assists in the collection of military, economic, political, sociological, and geographic information; serves as senior intelligence editor or as intelligence team chief; supervises from four to ten individuals. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as a chief strategic intelligence analyst or as a first-line supervisor for intelligence operations teams; assists in supervision of combined information/intelligence coordination centers; conducts general intelligence training programs; supervises and coordinates the preparation of intelligence reports and prepares consolidated reports containing maps, aerial photographs, and technical data; conducts current situation briefings; may also supervise personnel holding MOS 96C (Interrogator). *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as chief operations and intelligence sergeant of large military units; supervises intelligence

activities; assists supervisors in the appraisal of intelligence procedures and operations; supervises the training of personnel assigned to tactical and technical operations of intelligence sections; supervises up to 200 persons. **NOTE:** May have progressed to 96B50 from 96B40 or 96C40 (Interrogator).

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in clerical practices (11/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in clerical practices, 3 in records administration, and 1 in map reading (11/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in clerical practices, 3 in records administration, 3 in technical writing, and 1 in map reading (11/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in clerical practices, 3 in records administration, 3 in technical writing, 3 in oral communication, 3 in personnel supervision, and 1 in map reading (11/77).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in clerical practices, 3 in records administration, 3 in technical writing, 3 in oral communication, 3 in personnel supervision, and 1 in map reading. In the upper-division baccalaureate category, 3 semester hours in management problems, 3 for field experience in management, and 3 for a practicum in education (11/77).

MOS-96B-003**INTELLIGENCE ANALYST**

96B10

96B20

96B30

96B40

96B50

Exhibit Dates: 10/91-Present.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Assembles, integrates, analyzes, and disseminates intelligence information collected from tactical, strategic, and technical sources; analyzes intelligence information; serves as a country or geographic area specialist. *Skill Level 10:* Processes incoming reports and messages; assists in maintaining intelligence records, files, and situation maps; assists in preparation of consolidated reports, maps, overlays, and aerial photographs; proofreads and assembles individual intelligence reports; safeguards classified information. *Skill Level 20:* Able to perform the duties required for Skill Level 10; analyzes intelligence holdings and identifies intelligence collection requirements; assists in coordination with technical intelligence personnel and preparation of reports on captured enemy material; prepares drafts of intelligence reports; has a working knowledge of personal computers. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance to subordinates; supervises receipt, analysis, and storage of

intelligence information; completes, edits, and disseminates intelligence reports; assists in conducting intelligence training programs and briefings; writes technical materials; supervises and evaluates from four to ten individuals. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in supervision of combined information/intelligence coordination centers; conducts general intelligence training programs; evaluates personnel and completes evaluation reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as chief operations and intelligence sergeant of large military units; supervises intelligence activities; assists commander and staff officer in appraisal of intelligence operations and training procedures; coordinates operating requirements of subordinate units with major or supported units.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy and 3 in personnel supervision (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in personnel supervision, 3 in technical writing, and 2 in records and information management (9/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in personnel supervision, 3 in technical writing, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management (9/91).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in personnel supervision, 3 in technical writing, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 6 for field experience in management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communications techniques for managers (9/91).

MOS-96D-003**IMAGERY ANALYST**

96D10

96D20

96D30

96D40

96D50

Exhibit Dates: 1/90-2/95.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Interprets aerial and ground imagery developed by photographic and electronic means. *Skill Level 10:* Utilizes principles and techniques of photogrammetry and employs electronic, mechanical, and optical devices to study and interpret photographs; assists in preparation of map overlays, plots, mosaics, charts,

and other graphics; computes distances and field coordinates; assists in the preparation of written reports on image interpretation findings. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; studies and interprets imagery produced by aerial sensor systems and hand-held camera; prepares maps; conducts briefings; computes areas and volumes; selects entry zones. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises image interpretation activities; assists air reconnaissance liaison officer and tactical surveillance officer; performs quality control on imagery analysis and reports; coordinates planning for ground and air reconnaissance and surveillance plans and requests; receives, evaluates, and disseminates mission results; plans and organizes work schedules and assigns duties; instructs subordinates in work techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in planning activities related to image utilization; arranges priorities for conduct of operation; assists in planning; levies imagery reproduction requirements; supervises preparation of reconnaissance and surveillance plan; coordinates with collection agencies and requesters; instructs subordinates in proper image interpretation techniques; supervises preparation and maintenance of files. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises the duties of 96D40 and 96H40 (Aerial Intelligence Specialist); prepares and coordinates surveillance plan; assists command and staff officers; coordinates operation requirements; prepares, coordinates, and supervises activities related to image interpretation; directs training; supervises staff; advises superiors. **NOTE:** May have progressed to 96D50 from 96D40 or 96H40 (Aerial Intelligence Specialist).

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 2 in mechanical drawing, 3 in aerial photographic interpretation, 3 in photogrammetry, 1 in technical writing, and 3 in technical mathematics. (**NOTE:** This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/90).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 in technical mathematics, 2 in mechanical drawing, and 1 in technical writing (6/90).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 in technical mathematics, 3 in technical writing, 3 in principles of supervision, and 2 in mechanical drawing (6/90).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 in technical mathematics, 3 in technical writing, 3 in principles of supervision, and 2 in mechanical drawing. In the upper-division baccalaureate category, 3 semester hours in management

problems and 3 for field experience in management (6/90).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 in technical mathematics, 3 in technical writing, 3 in principles of supervision, and 2 in mechanical drawing. In the upper-division baccalaureate category, 3 semester hours in management problems and 6 for field experience in management (6/90).

MOS-96D-004

IMAGERY ANALYST

96D10
96D20
96D30
96D40
96D50

Exhibit Dates: 3/95–Present.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Interprets aerial and ground imagery developed by photographic and electronic means. *Skill Level 10:* Utilizes principles and techniques of photogrammetry and employs electronic, mechanical, and optical devices to study and interpret photographs; assists in preparation of map overlays, plots, mosaics, charts, and other graphics; computes distances and field coordinates; assists in the preparation of written reports on image interpretation findings. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; studies and interprets imagery produced by aerial sensor systems and hand-held camera; prepares maps; conducts briefings; computes areas and volumes; selects entry zones. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises image interpretation activities; assists air reconnaissance liaison officer and tactical surveillance officer; performs quality control on imagery analysis and reports; coordinates planning for ground and air reconnaissance and surveillance plans and requests; receives, evaluates, and disseminates mission results; plans and organizes work schedules and assigns duties; instructs subordinates in work techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in planning activities related to image utilization; arranges priorities for conduct of operation; assists in planning; levies imagery reproduction requirements; supervises preparation of reconnaissance and surveillance plan; coordinates with collection agencies and requesters; instructs subordinates in proper image interpretation techniques; supervises preparation and maintenance of files. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises the duties of 96D40 and 96H40 (Aerial Intelligence Specialist); prepares and coordinates surveillance plan; assists command and staff officers; coordinates operation requirements; prepares, coordinates, and supervises activities related to image interpretation; directs training; supervises staff; advises superiors. **NOTE:** May have progressed to 96D50 from 96D40 or 96H40 (Aerial Intelligence Specialist).

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (6/90).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (6/90).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 in technical mathematics, 1 in technical writing, 3 in principles of supervision, and 2 in mechanical drawing (6/90).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 in technical mathematics, 3 in technical writing, 3 in principles of supervision, and 2 in mechanical drawing. In the upper-division baccalaureate category, 3 semester hours in management problems and 3 for field experience in management (6/90).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 in technical mathematics, 3 in technical writing, 3 in principles of supervision, and 2 in mechanical drawing. In the upper-division baccalaureate category, 3 semester hours in management problems and 6 for field experience in management (6/90).

MOS-96F-001

PSYCHOLOGICAL OPERATIONS SPECIALIST

96F10
96F20
96F30
96F40
96F50

Exhibit Dates: 1/90–9/91. Effective 9/91, MOS 96F was discontinued, and its duties were incorporated into MOS 37F, Psychological Operations Specialist.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Supervises, coordinates, and participates in analysis, planning, production, and dissemination of tactical, strategic, and consolidated psychological operations (PSYOP). *Skill Level 10:* Assists in collecting and reporting PSYOP-related information; assists in processing information into intelligence to support PSYOP; assists in identifying intelligence collection requirements for PSYOP support; assists in evaluating and analyzing current intelligence, PSYOP studies, and estimates to determine PSYOP targets; assists in establishment and maintenance of situation maps to provide current intelligence/PSYOP information and identification, disposition, and movement of enemy forces; assists in the design of PSYOP products; assists in the development and administration of surveys to evaluate the effects of planned and executed products; operates PSYOP dissemination equipment and assists in the delivery of PSYOP products; assists in the packaging of PSYOP products for delivery by

various means; maintains journals, status boards, visual displays, charts, and graphs required to manage PSYOP, either manually or using automatic data processing equipment; prepares, stores, and retrieves information on PSYOP-related intelligence, plans, campaigns, and products; assists and performs intelligence functions as required; maintains and operates organizational communications equipment, generators, and organic PSYOP production and dissemination team equipment; assists in establishing and maintaining systematic cross-referenced PSYOP records and files; safeguards classified information. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; coordinates resource requirements for the development, production, and dissemination of PSYOP products; assists in the integration of PSYOP planning in support of conventional, special operations, and deception planning; develops and administers surveys to evaluate the effectiveness of PSYOP products; assists in determining the appropriate mix of media relative to available assets to disseminate PSYOP products; analyzes current intelligence holdings to identify intelligence gaps and subsequent intelligence collection requirements to support PSYOP; evaluates current intelligence, PSYOP studies, and estimates to determine PSYOP targets; assists in identifying psychological vulnerabilities and susceptibilities of PSYOP targets; assists in evaluating translations of captured enemy documents and intelligence information reports from interrogations; assists in the analysis of enemy foreign propaganda and other foreign media; informs superiors of information having immediate tactical PSYOP value; packages PSYOP products for delivery by various means; identifies and maintains information on the availability of products and delivery means; establishes and maintains reference files of translated material. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises receipt, analysis, and storage of PSYOP-related intelligence information; coordinates PSYOP intelligence collection requirements with supported command and higher headquarters; spot-checks analyses performed by subordinates; plans and advises on PSYOP in direct and general support of operational forces; plans and implements PSYOP campaigns; assists in planning, identification, mobilization, and deployment of PSYOP resources; supervises propaganda writers, broadcast specialists, journalists, and illustrators to develop and produce PSYOP products; supervises PSYOP dissemination and delivery sections and teams; determines dissemination requirements for PSYOP products; assists in the conduct of liaison with the supported command; advises supported commands on psychological considerations of planning operations; provides guidance and training for subordinates; assists in preparing and conducting PSYOP training programs; analyzes enemy propaganda. *Skill Level 40:* Able to perform the duties required for Skill Level 30; plans and organizes work schedules and assigns specific tasks in support of tactical or strategic PSYOP missions; assists in supervision of propaganda development and tactical operations centers; conducts general PSYOP training programs for the command; supervises planning and dissemination of PSYOP products; controls the execution of PSYOP campaigns; monitors preparation and production of PSYOP products

and acquisition of resources necessary to support implementation of PSYOP campaigns; conducts liaison with supported commands; supervises intelligence analysts, interpreters, interrogators, and translators assigned or attached to PSYOP units. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises and provides technical guidance to subordinates; provides liaison with supported staff and commands; assists PSYOP commanders and staff officers in planning, organizing, directing, supervising, training, and coordinating activities pertaining to PSYOP at all levels of command.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in technical writing, 1 in record keeping, and 1 in audiovisual technology (12/88).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in technical writing, 1 in record keeping, 2 in audiovisual technology, 2 in records management, 1 in oral communication, and 2 in personnel supervision (12/88).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in technical writing, 1 in record keeping, 2 in audiovisual technology, 2 in records management, 2 in oral communication, 3 in personnel supervision, and 3 in business organization and management (12/88).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in technical writing, 1 in record keeping, 2 in audiovisual technology, 2 in records management, 2 in oral communication, 3 in personnel supervision, and 3 in business organization and management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in principles of management (12/88).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 2 semester hours in technical writing, 1 in record keeping, 2 in audiovisual technology, 2 in records management, 2 in oral communication, 3 in personnel supervision, and 3 in business organization and management. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in principles of management, and 3 in management problems (12/88).

MOS-96H-002

AERIAL INTELLIGENCE SPECIALIST

96H10
96H20
96H30
96H40

Exhibit Dates: 1/90-2/95.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Supervises or participates in aerial surveillance and electronic intercept operations to provide information and imagery of intelligence value. *Skill Level 10:* Participates in mission planning for aerial surveillance, aerial visual reconnaissance, aerial

search and rescue, aerial radiological survey and similar missions; operates data link terminal station and performs side looking airborne radar imagery analysis; prepares and operates aerial surveillance/electronic intercept systems; performs aerial missions operating aerial infrared, radar, and photographic equipment including data transmission links and ground data terminal station; operates radio and aids in aerial navigation; recognizes enemy electronic countermeasures and performs countermeasures; acquires targets; participates in mission debriefing; assists in the analysis of images; performs preflight, preoperation, and operator and unit maintenance on surveillance and electronic intercept equipment; troubleshoots systems to determine nature and location of problems; records operation and maintenance data. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; may serve as assistant instructor at service school; operates and supervises the operation of aerial surveillance and aerial surveillance/electronic intercept systems; assists in flight planning, weather analysis, navigational computation and aircraft preflight inspections; prepares aerial surveillance equipment for operation; assists imagery analyst in interpreting imagery recording using keys and reference material. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises operation and activities of aerial surveillance, electronic intercept, and data terminal section; supervises inspection and operator maintenance of aerial surveillance and electronic intercept equipment; assists in planning, employment, and management of aerial surveillance, electronic intercept, and data terminal systems; serves as instructor at service school; assists in the analysis and interpretation of aerial sensor imagery to determine geographical features of terrain and physical features of enemy installation; conducts or participates in briefing of commander and staff of supported headquarters on capabilities and limitations of aerial surveillance and similar missions. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises operations and activities of platoon-sized detachment; plans and organizes work schedules; assigns duties and instructs section sergeant in work techniques; reviews and critiques mission results; advises commander; coordinates personnel on team employment, deployment, operational supply, and maintenance requirements; serves as instructor at service school.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics and 1 in map/air photo reading. In the upper-division baccalaureate category, 1 semester hour in remote sensing. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (6/90).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 1 in map/air photo reading, and 1 in basic electronic systems. In the upper-division baccalaureate category, 1 semester hour in remote sensing (6/90).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 3 in map/air photo reading, 1 in

basic electronic systems, 3 in principles of supervision, and 3 in communication skills (oral and written). In the upper-division baccalaureate category, 1 semester hour in remote sensing and 3 for field experience in management (6/90).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 3 in map/air reading, 1 in basic electronic systems, 3 in principles of supervision, and 3 in communication skills (oral and written). In the upper-division baccalaureate category, 1 semester hour in remote sensing, 3 for field experience in management, and 3 in management problems (6/90).

MOS-96H-003

AERIAL INTELLIGENCE SPECIALIST

96H10

96H20

96H30

96H40

Exhibit Dates: 3/95–Present.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Supervises or participates in aerial surveillance and electronic intercept operations to provide information and imagery of intelligence value. *Skill Level 10:* Participates in mission planning for aerial surveillance, aerial visual reconnaissance, aerial search and rescue, aerial radiological survey and similar missions; operates data link terminal station and performs side-looking airborne radar imagery analysis; prepares and operates aerial surveillance/electronic intercept systems; performs aerial missions operating aerial infrared, radar, and photographic equipment including data transmission links and ground data terminal station; operates radio and aids in aerial navigation; recognizes enemy electronic countermeasures and performs countermeasures; acquires targets; participates in mission debriefing; assists in the analysis of images; performs preflight, preoperation, and operator and unit maintenance on surveillance and electronic intercept equipment; troubleshoots systems to determine nature and location of problems; records operation and maintenance data. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; may serve as assistant instructor at service school; operates and supervises the operation of aerial surveillance and aerial surveillance/electronic intercept systems; assists in flight planning, weather analysis, navigational computation and aircraft preflight inspections; prepares aerial surveillance equipment for operation; assists imagery analyst in interpreting imagery recording using keys and reference material. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises operation and activities of aerial surveillance, electronic intercept, and data terminal section; supervises inspection and operator maintenance of aerial surveillance and electronic intercept equipment; assists in planning, employment, and management of aerial surveillance, electronic intercept, and data terminal systems; serves as instructor at service school; assists in the analysis and interpretation of aerial sensor imagery to determine geographical features of terrain and physical features of

enemy installation; conducts or participates in briefing of commander and staff of supported headquarters on capabilities and limitations of aerial surveillance and similar missions. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises operations and activities of platoon-sized detachment; plans and organizes work schedules; assigns duties and instructs section sergeant in work techniques; reviews and critiques mission results; advises commander; coordinates personnel on team employment, deployment, operational supply, and maintenance requirements; serves as instructor at service school.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (6/90).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (6/90).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 1 in map/air photo reading, 1 in basic electronic systems, 3 in principles of supervision, and 3 in communication skills (oral and written). In the upper-division baccalaureate category, 1 semester hour in remote sensing and 3 for field experience in management (6/90).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 3 in map/air reading, 1 in basic electronic systems, 3 in principles of supervision, and 3 in communication skills (oral and written). In the upper-division baccalaureate category, 1 semester hour in remote sensing, 3 for field experience in management, and 3 in management problems (6/90).

MOS-96R-001

GROUND SURVEILLANCE SYSTEMS OPERATOR

96R10

96R20

96R30

96R40

96R50

Exhibit Dates: 1/90–Present.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Supervises or operates ground surveillance systems engaged in intelligence and information gathering. *Skill Level 10:* Operates ground surveillance systems; reads military maps, overlays, and aerial photographs; uses radar surveillance cards and plotters; assists in emplacement, camouflage, and recovery of equipment; detects, locates, and reports target data; operates organic communications equipment, light wheeled vehicles, and power sources; assists in performing preventive maintenance on ground surveillance systems and associated equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; selects specific equipment emplacement sites and supervises emplacement and operation of equipment; prepares overlays and surveillance cards. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises organizational maintenance, preventive maintenance,

emplacement and displacement of equipment, and preparation of surveillance cards; notifies supported unit of team locations; recommends methods of employment; conducts tactical and equipment-oriented training; maintains operational records. *Skill Level 40:* Able to perform the duties required for Skill Level 30; plans, recommends, and determines employment and operational techniques; plans and organizes work schedules and assigns duties; instructs squad and team leaders in work techniques and procedures; supervises operations, activities of platoon, and requisitioning of replacement parts; applies military intelligence collection and surveillance planning procedures; participates in electromagnetic intelligence surveillance and collection training of personnel. *Skill Level 50:* Able to perform the duties required for Skill Level 40; assists tactical surveillance officer in planning and coordinating employment of ground surveillance equipment and in preparing and implementing reconnaissance and surveillance plans; provides input to collection plans; prepares and updates ground reconnaissance and surveillance situation maps; may serve as principal noncommissioned officer (identified by the special qualifications identifier M - First Sergeant).

Recommendation, Skill Level 10

Credit is not recommended because the skills, competencies, and knowledge are uniquely military (7/87).

Recommendation, Skill Level 20

Credit is not recommended because the skills, competencies, and knowledge are uniquely military (7/87).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel supervision (7/87).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in principles of management and 3 for field experience in management (7/87).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in principles of management, 3 for field experience in management, and 3 in applied psychology (7/87).

MOS-96U-001

UNMANNED AERIAL VEHICLE OPERATOR

96U10

96U20

96U30

96U40

96U50

Exhibit Dates: 4/92–Present.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Assembles, launches, flies, and operates on-board surveillance equipment, and retrieves unmanned aerial vehicles; performs operator maintenance on RF and computer equipment. *Skill Level 10:* Assembles, launches, flies, and retrieves aircraft; performs minor airframe repair. *Skill Level 20:* Able to

perform the duties required for Skill Level 10; supervises activities of subordinates; directs emplacement of equipment; supervises or performs airframe repair. *Skill Level 30*: Able to perform the duties required for Skill Level 20; provides technical guidance to subordinates; performs shift supervisor duties; coordinates mission with other units; maintains operational records. *Skill Level 40*: Able to perform the duties required for Skill Level 30; coordinates shift operations. *Skill Level 50*: Able to perform the duties required for Skill Level 40; assists commander in site selection; supervises area security; coordinates activities of subordinate aerial vehicle platoons.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (10/93).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer operations. (NOTE: This recommendation for skill level 20 is valid for the dates 4/92-2/95 only) (10/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer operations and 3 in personnel supervision (10/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer operations and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (10/93).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer operations and 3 in personnel supervision. In the upper-division baccalaureate category, 6 semester hours for field experience in management (10/93).

MOS-96Z-001

INTELLIGENCE SENIOR SERGEANT
96Z50

Exhibit Dates: 1/90-8/91.

Career Management Field: 96 (Military Intelligence), subfield 960 (General Tactical Intelligence).

Description

Supervises intelligence collection, analysis, processing, and surveillance activities at group, division, corps, or higher headquarters; supervises training activities; supervises tactical and technical operations; assists commissioned officers in appraisal of intelligence operations and training; instructs in specific phases of command intelligence procedures; supervises collection, preparation, and distribution of intelligence operations and training data; advises supervisors on matters concerning intelligence, operations, and administration. NOTE: May have progressed to 96Z50 from 96B50 (Intelligence Analyst), 96D50 (Image Interpreter), or 17K50 (Ground Surveillance Radar Crewman).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in clerical practices, 3 in records administration, 3 in technical

writing, 3 in oral communication, 3 in personnel supervision, and 1 in map reading. In the upper-division baccalaureate category, 6 semester hours for a practicum in education, 3 for field experience in management, and 3 in management problems (11/77).

MOS-96Z-002

INTELLIGENCE SENIOR SERGEANT
96Z50

Exhibit Dates: 9/91-Present.

Career Management Field: 96 (Military Intelligence).

Description

Supervises intelligence collection, analysis, processing, and surveillance activities at group, division, corps, or comparable higher headquarters; supervises training activities; supervises tactical and technical operations; assists commissioned officers in appraisal of intelligence operations and training; instructs in specific phases of command intelligence procedures; supervises collection, preparation, and distribution of intelligence operations and training data; advises supervisors on matters concerning intelligence, operations, and administration. NOTE: May have progressed to 96Z50 from 96B50 (Intelligence Analyst), 96D50 (Imagery Analyst), or 96R50 (Ground Surveillance Systems Operator).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in records and information management, and 3 in computer literacy. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if individual has attained pay grade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (9/91).

MOS-97B-003

COUNTERINTELLIGENCE AGENT
97B10
97B20
97B30
97B40
97B50

Exhibit Dates: 1/90-10/94.

Career Management Field: 96 (Military Intelligence), subfield 961 (Controlled Intelligence).

Description

Summary: NOTE: The skill levels of MOS 97B are not necessarily indicative of progressively complex duties, increased skills, and greater responsibilities; the higher skill levels in this MOS usually indicate longer tenure. Individual in this MOS conducts security-oriented investigations when there is a threat to military operations, installations, and personnel; collects background information concerning foreign and domestic individuals, groups, and organizations posing such a threat; collects information through personal interviews, screening of public and private records made available to them, and surveillance techniques; is knowledgeable about the geography, political, and economic systems, culture, and customs of at least one foreign country; operates specialized photographic and sound recording equipment; conducts physical surveys of installations and

facilities to minimize threats to security; maintains files; prepares written reports and gives oral reports of findings; conducts security-oriented classes and briefings; may be proficient in a foreign language. NOTE: Required to have held another MOS for at least two years prior to holding this MOS. *Skill Level 10*: Under close supervision, assists in tactical noninvestigative counterintelligence and operational security duties; assists in determining enemy intelligence collection assets, organizations, composition, personnel, methods of operation, capabilities, vulnerabilities, limitations, and missions; assists in evaluating sources of information; assists in formulating investigation plans; prepares recording and photographic equipment for operation; compiles collected counterintelligence information; prepares and types summaries and reports; prepares interrogation rooms; disseminates intelligence reports; stores, inventories, and controls classified documents. *Skill Level 20*: Able to perform the duties required for Skill Level 10; conducts counterintelligence investigations, often without close supervision; functions as a basic counterintelligence agent; applies fundamentals of military and civil law in conducting investigations; evaluates sources and information; prepares and types reports and summaries; conducts security surveys. *Skill Level 30*: Able to perform the duties required for Skill Level 20; may provide counterintelligence support at higher headquarters; may assist in on-the-job training of newer agents; functions as chief counterintelligence agent; plans and conducts counterintelligence operations to include analyzing, selecting, exploiting, and neutralizing targets of counterintelligence interest. *Skill Level 40*: Able to perform the duties required for Skill Level 30; may be used in a supervisory capacity; plans, organizes, and coordinates activities of counterintelligence support teams; functions as a senior counterintelligence agent. *Skill Level 50*: Able to perform the duties required for Skill Level 40; may conduct especially sensitive investigations; may be used as a staff specialist, planning and supervising intelligence operations. NOTE: May have progressed to 97B50 from 97B40 or 97C50 (Area Intelligence Specialist).

Recommendation, Skill Level 10

Credit is not recommended because of the limited or specialized nature of the skills, competencies, and knowledge (10/84).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in police administration, 3 in industrial security, 3 in United States government, 3 in applied psychology, 3 in report writing, 1 in typing, and additional credit in personnel supervision and office management on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services (10/84).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in police administration, 3 in industrial security, 3 in United States government, 3 in applied psychology, 3 in report writing, 1 in typing, and additional credit in personnel supervision and office management on the basis of

institutional evaluation. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services (10/84).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in police administration, 3 in industrial security, 3 in United States government, 3 in applied psychology, 3 in report writing, 1 in typing, and additional credit in personnel supervision and office management on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in political ideologies, 3 in constitutional law, and 3 in public relations. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services (10/84).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in police administration, 3 in industrial security, 3 in United States government, 3 in applied psychology, 3 in report writing, 1 in typing, and additional credit in personnel supervision and office management on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in political ideologies, 3 in constitutional law, and 3 in public relations. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services (10/84).

MOS-97B-004

COUNTERINTELLIGENCE AGENT

97B10
97B20
97B30
97B40
97B50

Exhibit Dates: 11/94–Present.

Career Management Field: 96 (Military Intelligence).

Description

Summary: NOTE: The skill levels of MOS 97B are not necessarily indicative of progressively complex duties, increased skills, and greater responsibilities; the higher skill levels in this MOS usually indicate longer tenure. Individual in this MOS conducts security-oriented investigations when there is a threat to military operations, installations, and personnel; collects background information concerning foreign and domestic individuals, groups, and organizations posing such a threat; collects information through personal interviews, screening of public and private records made available to them, and surveillance techniques; operates specialized photographic and sound-recording equipment; conducts physical surveys of installations and facilities to minimize threats to security; maintains files; prepares written reports and gives oral reports of findings; conducts security-oriented classes and briefings; may be proficient in a foreign language. *Skill Level 10:* Under close supervision, assists in tactical non-investigative counterintelligence and operational security duties; assists in determining enemy intelligence collection assets, organiza-

tions, composition, personnel, methods of operation, capabilities, vulnerabilities, limitations, and missions; assists in evaluating sources of information; assists in formulating investigation plans; prepares recording and photographic equipment for operation; compiles collected counterintelligence information; prepares and types summaries and reports; prepares interrogation rooms; disseminates intelligence reports; stores, inventories, and controls classified data bases. *Skill Level 20:* Able to perform the duties required for Skill Level 10; conducts counterintelligence investigations, often without close supervision; functions as a basic counterintelligence agent; applies fundamentals of military and civil law in conducting investigations; evaluates sources and information; prepares and types reports and summaries; conducts security surveys. *Skill Level 30:* Able to perform the duties required for Skill Level 20; may provide counterintelligence support at higher headquarters; may assist in on-the-job training of newer agents; functions as chief counterintelligence agent; plans and conducts counterintelligence operations to include analyzing, selecting, exploiting, and neutralizing targets of counterintelligence interest. *Skill Level 40:* Able to perform the duties required for Skill Level 30; may be used in a supervisory capacity; plans, organizes, and coordinates activities of counterintelligence support teams; functions as a senior counterintelligence agent. *Skill Level 50:* Able to perform the duties required for Skill Level 40; may conduct especially sensitive investigations; may be used as a staff specialist, planning and supervising intelligence operations.

Recommendation, Skill Level 10

Credit is not recommended because of the limited or specialized nature of the skills, competencies, and knowledge (11/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in social science, 3 in police administration, 3 in physical security, 3 in United States government, 3 in applied psychology, 3 in report writing, 1 in keyboarding, and 3 in interpersonal communications. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the DoD volume of the Guide. (NOTE: This recommendation for skill level 20 is valid for the dates 11/94-2/95 only) (11/94).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in social science, 3 in police administration, 3 in physical security, 3 in United States government, 3 in applied psychology, 3 in report writing, 1 in keyboarding, 3 in interpersonal communications, 3 in personnel supervision, and 2 in records and information management. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the DoD volume of the Guide (11/94).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in social science, 3 in police administration, 3 in physical security, 3 in United States government, 3 in applied psychology, 3 in report writing, 1 in keyboarding, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in public relations, 3 in ethnic studies,

and 3 in international relations. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the DoD volume of the Guide (11/94).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in social science, 3 in police administration, 3 in physical security, 3 in United States government, 3 in applied psychology, 3 in report writing, 1 in keyboarding, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in public relations, 3 in ethnic studies, 3 in international relations, and 3 for field experience in management. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the ODD volume of the Guide (11/94).

MOS-97E-002

INTERROGATOR

97E10
97E20
97E30
97E40
97E50

Exhibit Dates: 1/90–9/91.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Conducts and supervises interrogations in foreign language; knows geography, political system, economic system, and customs of the countries in which the foreign language is spoken; prepares translation reports. *Skill Level 10:* Conducts interrogations in foreign language of prisoners of war, enemy deserters, civilians, and refugees to obtain information necessary for the development of military intelligence; compares and verifies information obtained with information contained in other interrogation reports, captured documents, and intelligence reports; prepares notes and keeps detailed records on all interrogations performed; translates and prepares summaries, extracts, and full translations of written foreign material (directives, records, messages, combat orders, technical publications) into English; translates speeches, announcements, radio scripts, and other materials into foreign language for use in non-English speaking countries; types translated materials; establishes reference files of translation materials. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to subordinates; reviews and edits translations. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance to subordinates; performs more difficult interrogations and translations including scientific information; determines requirements for summaries, extracts, or complete translations of documents; performs as a team chief for interrogations and translator/interpretation functions; monitors interrogations and translations for accuracy, adequacy, and completeness; organizes and conducts on-the-job training; assists in preparation and presentation of information to superiors. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises an interrogation center or interrogation, translation/interpreter sections; plans and organizes work schedules; assists in specific tasks; plans training activities; ensures estab-

lishment of required files and preparation of required reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises strategic intelligence interrogation center; plans, coordinates, and supervises intelligence interrogation training and operation; provides expert interrogation capability for high-level, technical interrogations; advises commander and staff on distribution and assignment of interrogation personnel.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in record keeping and 2 in filing. In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in typing, 3 in report writing, 3 in oral communication, and additional credit in area studies on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the DoD volume 4 of the Guide to the Evaluation of Educational Experiences in the Armed Services (11/77).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in record keeping and 2 in filing. In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in typing, 3 in report writing, 3 in oral communication, and additional credit in area studies on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services (11/77).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in record keeping and 2 in filing. In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in typing, 3 in report writing, 3 in oral communication, 3 in personnel supervision, and additional credit in area studies on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services (11/77).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in record keeping and 2 in filing. In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in typing, 3 in report writing, 3 in oral communication, 3 in personnel supervision, and additional credit in area studies on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management and additional credit in area studies, for field experience in management, and for a practicum in education on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services (11/77).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in record keeping and 2 in filing. In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in typing, 3 in report writing, 3 in oral

communication, 3 in personnel supervision, and additional credit in area studies on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 for field experience in management, and additional credit in area studies and for a practicum in education on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services (5/88).

MOS-97E-003

INTERROGATOR

97E10
97E20
97E30
97E40
97E50

Exhibit Dates: 10/91–Present.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Conducts and supervises interrogations in foreign language; knows geography, political system, economic system, and customs of the countries in which the foreign language is spoken; prepares and edits translation reports. **Skill Level 10:** Conducts interrogations in foreign language of prisoners of war, enemy deserters, civilians, and refugees to obtain information necessary for the development of military intelligence reports; prepares notes and keeps detailed records on all interrogations performed; translates and prepares summaries, extracts, and full translations of written foreign material (directives, records, messages, combat orders, technical publications) into English; translates speeches, announcements, radio scripts, and other materials into foreign language for use in non-English speaking countries; establishes reference files of translation materials. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises and provides technical guidance to subordinates; reviews and edits translations; performs difficult translations; ensures the accurate exchange of ideas, statements, and intent; has a basic understanding and working knowledge of personal computers. **Skill Level 30:** Able to perform the duties required for Skill Level 20; provides technical guidance to subordinates; performs as a team chief for interrogations and translator/interpretation functions; monitors interrogations and translations for accuracy, adequacy, and completeness; organizes and conducts on-the-job training; assists in preparation and presentation of information to superiors. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises an interrogation center or interrogation, translation/interpreter sections; plans and organizes work schedules; assigns specific tasks; plans training activities; ensures establishment of required files and preparation of required reports; performs as platoon sergeant in a military intelligence company. **Skill Level 50:** Able to perform the duties required for Skill Level 40; supervises strategic intelligence interrogation center; plans, coordinates, and supervises interrogation capability for high-level, technical interrogations; advises commander and staff on distribution and assignment of interrogation personnel.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in report writing, 3 in oral communication, 3 in computer literacy, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in applied psychology, 3 in regional geography, and 3 in geopolitics. NOTE: Add credit for the specific foreign language in accordance with the recommendations in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services. (NOTE: This recommendation for skill level 20 is valid for the dates 10/91–2/95 only) (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in report writing, 3 in oral communication, 3 in computer literacy, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in applied psychology, 3 in regional geography, and 3 in geopolitics. NOTE: Add credit for the specific foreign language in accordance with the recommendations in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services (9/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in report writing, 3 in oral communication, 3 in computer literacy, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in applied psychology, 3 in regional geography, 3 in geopolitics, 3 for field experience in management, and 3 in organizational management. NOTE: Add credit for the specific foreign language in accordance with the recommendations in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services (9/91).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in report writing, 3 in oral communication, 3 in computer literacy, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in applied psychology, 3 in regional geography, 3 in geopolitics, 6 for field experience in management, and 3 in organizational management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers. NOTE: Add credit for the specific foreign language in accordance with the recommendations in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services (9/91).

MOS-97G-001

SIGNAL SECURITY SPECIALIST

97G10
97G20
97G30
97G40
97G50

Exhibit Dates: 1/90-9/91.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Supervises and conducts signal security operations throughout the Army; monitors and analyzes communications signals; performs electronic security inspections; reviews documents for adequacy of security; prepares comprehensive written reports and makes oral presentations. **NOTE:** Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledge associated with the MOS were evaluated. **Skill Level 10:** Performs transcription, monitoring, and basic analysis of radiotelephone and conventional telephone messages to detect communications security discrepancies and violations; reviews communications, electronic signal instructions, communications electronic operating instructions, and operations plans and orders to determine adequacy of communications security; reads and interprets maps and map overlays; prepares basic reports on signal security activities; operates and performs user maintenance on communications security and monitoring equipment; selects sites for, erects, and orients tactical antennas; selects and uses commercial battery and generator power; performs general office duties such as filing, typing (35 words per minute minimum), preparation of reports, and record keeping; presents oral reports concerning communications security activities. **Skill Level 20:** Able to perform the duties required for Skill Level 10; serves as team chief, supervising two to five persons; provides basic signal security advice and assistance to commanders; performs security analysis of security codes; establishes and supervises operating sites; writes reports including statistical analyses; presents oral reports on data collected; makes recommendations to eliminate disclosure of intelligence information; provides advice and assistance concerning cryptographic systems and the interpretation of basic documents and regulations; determines need for written communications security instructions; prepares special, periodic, and project reports on signal security activities. **Skill Level 30:** Able to perform the duties required for Skill Level 20; serves as first-line supervisor of 10-12 persons; provides advice and assistance on electronic security procedures and signal security training; prepares signal security monitoring cover plan; analyzes the signal output of communications and noncommunications equipment to establish methods of operations, cryptonetting, and other types of intelligence; reviews documents for signal security; plans and supervises electronic security support; schedules signal security operational activities. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises 15 or more persons; determines needed signal intelligence support; presents oral reports to commanders on operational security principles; plans signal security actions to support the operational security plan; serves as advisor to commanders on signal security matters; plans and conducts classes on signal security activities. **Skill Level 50:** Able to perform the duties required for Skill Level 40; serves as signal security operations chief, first sergeant of a company, or signal security chief; supervises 50-300 persons; has experience as the enlisted commander of a detachment; develops and writes signal security doctrine; advises commander and manages signal security personnel; plans career progression training; allocates personnel; advises commander and manages signal

commander of a detachment; develops and writes signal security doctrine; advises commander and manages signal security personnel; plans career progression training; allocates personnel; advises commander and manages signal security equipment resources; plans and carries out signal security missions; advises generals and high-level government officials on signal security activities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 2 in written communication skills, 2 in oral communication skills, 2 in electronic system operations, and 1 in office practices (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in written communication skills, 3 in oral communication skills, 3 for field experience in personnel supervision, 2 in electronic system operations, 2 in office practices, and 2 in introductory mathematics (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in written communication skills, 3 in typing, 3 in oral communication skills, 3 for field experience in personnel supervision, 2 in human relations, 2 in electronic system operations, 2 in office practices, and 2 in introductory mathematics. In the upper-division baccalaureate category, 2 semester hours for field experience in management (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication skills, 3 in typing, 3 in oral communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic system operations, 2 in office practices, and 2 in introductory mathematics. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 for an internship in education (6/77).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication skills, 3 in typing, 3 in oral communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic system operations, 2 in office practices, and 2 in introductory mathematics. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in personnel management, and 3 for an internship in education (6/77).

MOS-97G-002

MULTI-DISCIPLINE COUNTER-INTELLIGENCE

OPERATOR/ANALYST

(Counter-Signals Intelligence Specialist)

97G10

97G20

97G30

97G40

97G50

Exhibit Dates: 10/91-Present.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Supervises and conducts signal security operations throughout the Army; monitors and analyzes communications signals; performs electronic security; prepares comprehensive written reports and makes oral presentations. **NOTE:** Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledge associated with the MOS were evaluated. **Skill Level 10:** Performs transcription, monitoring, and basic analysis of radiotelephone and conventional telephone messages to detect communications security discrepancies and violations; reviews communications, electronic signal instructions, communications electronic operating instructions, and operations plans and orders to determine adequacy of communications security; reads and interprets maps and map overlays; prepares basic reports on signal security activities; operates and performs user maintenance on communications security and monitoring equipment; selects sites for, erects, and orients tactical antennas; selects and uses commercial battery and generator power; performs general office duties such as filing, typing (35 words per minute minimum), preparation of reports, and record keeping; presents oral reports concerning communications security activities; has a working knowledge of personal computers. **Skill Level 20:** Able to perform the duties required for Skill Level 10; serves as team chief, supervising two to five persons; provides basic signal security advice and assistance to commanders; analyzes security codes; establishes and supervises operating sites; writes reports including statistical analyses; presents oral reports on data collected; makes recommendations to eliminate disclosure of intelligence information; provides advice and assistance concerning cryptographic systems and the interpretation of basic documents and regulations; determines need for written communications security instructions; prepares special, periodic, and project reports on signal security activities. **Skill Level 30:** Able to perform the duties required for Skill Level 20; is a first-line supervisor of 10-20 persons; provides advice and assistance on electronic security procedures and signal security training; prepares signal security monitoring cover plan; analyzes the signal output of communications and noncommunications equipment to establish methods of operations, cryptonetting, and other types of intelligence; reviews documents for signal security; plans and supervises electronic security support; schedules signal security operational activities. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises 15 or more persons; determines needed signal intelligence support; presents oral reports to commanders on operational security principles; plans signal security actions to support the operational security plan; serves as advisor to commanders on signal security matters; plans and conducts classes on signal security activities. **Skill Level 50:** Able to perform the duties required for Skill Level 40; serves as signal security operations chief, first sergeant of a company, or signal security chief; supervises 50-300 persons; has experience as the enlisted commander of a detachment; develops and writes signal security doctrine; advises commander and manages signal security personnel; plans career progression training; allocates personnel; advises commander and manages signal

security equipment resources, plans and carries out signal security missions, advises generals and high-level government officials on signal security activities.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (3/94).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 10/91-2/95 only) (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in personnel supervision, and 2 in records and information management (9/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (9/91).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in organizational management; if individual has attained paygrade E-9, additional credit as follows: 3 semester hours in management problems, 3 in operations management, and 3 in communication techniques for managers (9/91).

MOS-97L-001

TRANSLATOR/INTERPRETER

97L10
97L20
97L30
97L40
97L50

Exhibit Dates: Pending Evaluation. 8/94-Present.

MOS-97Z-001

COUNTERINTELLIGENCE/HUMAN INTELLIGENCE

SENIOR SERGEANT
97Z50

Exhibit Dates: 1/90-Present.

Career Management Field: 96 (Military Intelligence).

Description

Able to perform the duties required for 97B, Counterintelligence Agent; 97E, Interrogator; or 97G, Counter Signal Intelligence Specialist; supervises and guides all counterintelligence activities; plans mission assignments; participates in long and short range planning for organizational operations including contingency operations and needs; responsible for coordinating and managing career and professional development of senior enlisted personnel in unit; responsible for supervising the maintenance records pertaining to materials, resources, personnel actions, and reports; oversees employment, substance abuse, and counseling; supervises daily schedules, ensuring that

the unit is efficient and ready, responsible for development and maintenance of all unit standard operating procedures. NOTE: May have progressed to MOS 97Z50 from 97B40 (Counterintelligence Agent), 97I40 (Interrogator), or 97G40 (Signal Security Specialist).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in management problems, 3 in human resource management, and 3 in organizational planning (6/90).

MOS-98C-003

SIGNALS INTELLIGENCE ANALYST

98C10
98C20
98C30
98C40

Exhibit Dates: 1/90-2/95.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Supervises, analyzes, and reports intercepted foreign communications at a mobile or fixed site. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledge associated with the MOS were evaluated. **Skill Level 10:** Gathers, sorts, and scans intercepted messages and signals and performs initial analysis to establish communications patterns; isolates valid message traffic; reduces communications data into automatic data processing format; operates communications equipment for reporting and coordination; types at a minimum rate of 25 words per minute; has knowledge of the geography and culture of the area from which intercepted communications originate; may acquire a technical vocabulary in one or more foreign language. **Skill Level 20:** Able to perform the duties required for Skill Level 10; may supervise five to eight persons; analyzes foreign communications including encrypted material; uses data processing techniques to analyze communications; presents written and oral technical and intelligence reports. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises traffic analysis and provides guidance on the interpretation of collected information; devises methods for solving complex analytical problems; maintains analytical files; compiles, writes, edits, evaluates, and disseminates intelligence reports; analyzes automatic data processing results and confers with computer programmers and analysts; coordinates activities and schedules work; implements emergency action plans. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises traffic and signal intelligence analysis activities and coordinates collection processing, analysis, and reports; supervises 18-40 persons; may serve as an operations sergeant, supervising up to 75 persons; may have experience as the enlisted commander of a detachment; uses counseling techniques to alleviate stress among subordinates.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in written communication, 3 in keyboarding, 1 in computer literacy, 2 in geography, and credit for

foreign language proficiency on the basis of institutional evaluation. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/88).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication, 3 in geography, 2 in oral communication, 2 in office practices, 3 in keyboarding, 2 in computer literacy, and credit in foreign language proficiency on the basis of institutional evaluation (9/88).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication, 3 in geography, 3 in oral communication, 3 in office practices, 3 in keyboarding, 3 in social science and humanities, 3 in human relations, 3 in computer literacy, and credit in foreign language proficiency on the basis of institutional evaluation (9/88).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication, 3 in geography, 3 in oral communication, 3 in office practices, 3 in keyboarding, 3 in social science and humanities, 3 in human relations, 3 for a counseling practicum, 3 in computer literacy, 3 for field experience in personnel supervision, and credit in foreign language proficiency on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours for field experience in management (9/88).

MOS-98C-004

SIGNALS INTELLIGENCE ANALYST

98C10
98C20
98C30
98C40

Exhibit Dates: 3/95-Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Supervises, analyzes, and reports intercepted foreign communications at a mobile or fixed site. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledge associated with the MOS were evaluated. **Skill Level 10:** Gathers, sorts, and scans intercepted messages and signals and performs initial analysis to establish communications patterns; isolates valid message traffic; reduces communications data into automatic data processing format; operates communications equipment for reporting and coordination; types at a minimum rate of 25 words per minute; has knowledge of the geography and culture of the area from which intercepted communications originate; may acquire a technical vocabulary in one or more foreign language. **Skill Level 20:** Able to perform the duties required for Skill Level 10; may supervise five to eight persons; analyzes foreign communications including encrypted material; uses data processing techniques to analyze

communications; presents written and oral technical and intelligence reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises traffic analysis and provides guidance on the interpretation of collected information; devises methods for solving complex analytical problems; maintains analytical files; compiles, writes, edits, evaluates, and disseminates intelligence reports; analyzes automatic data processing results and confers with computer programmers and analysts; coordinates activities and schedules work; implements emergency action plans. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises traffic and signal intelligence analysis activities and coordinates collection processing, analysis, and reports; supervises 18-40 persons; may serve as an operations sergeant, supervising up to 75 persons; may have experience as the enlisted commander of a detachment; uses counseling techniques to alleviate stress among subordinates.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (9/88).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (9/88).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication, 3 in geography, 2 in oral communication, 2 in office practices, 3 in keyboarding, 3 in human relations, 2 in computer literacy, and credit in foreign language proficiency on the basis of institutional evaluation (9/88).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication, 3 in geography, 3 in oral communication, 3 in office practices, 3 in keyboarding, 3 in social science and humanities, 3 in human relations, 3 for a counseling practicum, 3 in computer literacy, 3 for field experience in personnel supervision, and credit in foreign language proficiency on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours for field experience in management (9/88).

MOS-98D-001

EMITTER LOCATOR/IDENTIFIER

98D10
98D20
98D30
98D40

Exhibit Dates: 3/90-2/95.

Career Management Field: 98 (Signals Intelligence (SIGINT)/Electronic Warfare (EW) Operations).

Description

Summary: Operates or establishes and supervises the operation of radio direction-finding systems and other systems using advanced identification and automated computer analysis

techniques; intercepts and acquires bearings on target transmitters and performs analysis on maps or charts to establish probable locations of target transmitters; relays direction-finding information to other stations in the signals identification and electronic warfare network. *Skill Level 10:* Employs special transmitters; forwards bearings and identification information to a control center; selects, erects, and orients tactical antennas; obtains desired visual display on specialized monitor oscilloscopes; records electrical characteristics of signals displayed using light-sensitive recorders; operates direction-finding and related cryptological, communications, and automatic data processing equipment; prepares and maintains operation logs and card files; types at a minimum rate of 25 words per minute with no errors; copies international Morse code at a minimum rate of 20 groups per minute. *Skill Level 20:* Able to perform the duties required for Skill Level 10; employs surveying techniques for antenna site selection; maintains section management files; classifies, analyzes, and evaluates observed bearings and waveform oscillograms; establishes, plots, and evaluates bearings to determine probable geographical location of foreign transmitters; performs measurement of bands on oscillograms to determine ripple frequency, modulation percentages, and duration of other effects; maintains calibration and accuracy studies; conducts computer-assisted analysis of signals; relays direction-finding information to stations in network; monitors quality control of input and data for automatic data processing support; may serve as a first-line supervisor, assigning work loads and completing personnel evaluations; presents oral and written reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; inspects equipment to ensure proper alignment and orientation; provides guidance and assistance in site selection and equipment installation; prepares and supervises the preparation of written and oral reports; establishes and maintains facilities and support for site personnel; implements emergency action plans. *Skill Level 40:* Able to perform the duties required for Skill Level 30; may serve as detachment commander for about 20 persons; provides guidance to subordinates; allocates personnel resources; conducts emitter locator/identifier briefings.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 2 semester hours in keyboarding and 2 in computer systems and organization. (NOTE: This recommendation for skill level 10 is valid for the dates 3/90-9/91 only) (10/93).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in keyboarding, 2 in computer systems and organization, 3 in report writing, and 2 in surveying techniques (10/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in keyboarding, 3 in computer systems and organization, 3 in report writing, 2 in surveying techniques, and 3 in personnel supervision (10/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in keyboarding, 3 in computer systems and organization, 3

in report writing, 2 in surveying techniques, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (10/93).

MOS-98D-002

EMITTER LOCATOR/IDENTIFIER

98D10
98D20
98D30
98D40

Exhibit Dates: 3/95-Present.

Career Management Field: 98 (Signals Intelligence (SIGINT)/Electronic Warfare (EW) Operations).

Description

Summary: Operates or establishes and supervises the operation of radio direction-finding systems and other systems using advanced identification and automated computer analysis techniques; intercepts and acquires bearings on target transmitters and performs analysis on maps or charts to establish probable locations of target transmitters; relays direction-finding information to other stations in the signals identification and electronic warfare network. *Skill Level 10:* Employs special transmitters; forwards bearings and identification information to a control center; selects, erects, and orients tactical antennas; obtains desired visual display on specialized monitor oscilloscopes; records electrical characteristics of signals displayed using light-sensitive recorders; operates direction-finding and related cryptological, communications, and automatic data processing equipment; prepares and maintains operation logs and card files; types at a minimum rate of 25 words per minute with no errors; copies international Morse code at a minimum rate of 20 groups per minute. *Skill Level 20:* Able to perform the duties required for Skill Level 10; employs surveying techniques for antenna site selection; maintains section management files; classifies, analyzes, and evaluates observed bearings and waveform oscillograms; establishes, plots, and evaluates bearings to determine probable geographical location of foreign transmitters; performs measurement of bands on oscillograms to determine ripple frequency, modulation percentages, and duration of other effects; maintains calibration and accuracy studies; conducts computer-assisted analysis of signals; relays direction-finding information to stations in network; monitors quality control of input and data for automatic data processing support; may serve as a first-line supervisor, assigning work loads and completing personnel evaluations; presents oral and written reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; inspects equipment to ensure proper alignment and orientation; provides guidance and assistance in site selection and equipment installation; prepares and supervises the preparation of written and oral reports; establishes and maintains facilities and support for site personnel; implements emergency action plans. *Skill Level 40:* Able to perform the duties required for Skill Level 30; may serve as detachment commander for about 20 persons; provides guidance to subordinates; allocates personnel resources; conducts emitter locator/identifier briefings.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (10/93).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (10/93).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in keyboarding, 2 in computer systems and organization, 3 in report writing, 2 in surveying techniques, and 3 in personnel supervision (10/93).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in keyboarding, 3 in computer systems and organization, 3 in report writing, 2 in surveying techniques, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (10/93).

MOS-98G-003**ELECTRONIC WARFARE (EW)/SIGNAL****INTELLIGENCE VOICE INTERCEPT**

98G10

98G20

98G30

98G40

98G50

Exhibit Dates: 1/90-9/90.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Conducts and supervises the interception, transcription, translation, and reporting of foreign voice transmissions in a mobile or fixed station environment. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledge associated with the MOS were evaluated. **Skill Level 10:** Operates intercept receivers including radiotelephone and multichannel systems and recording equipment; selects, erects, and orients tactical antennas; makes written records of foreign voice transmissions which are composed of limited terminology and simple syntactic structures; identifies languages spoken in the geographic area to which assigned; categorizes foreign voice signals by type of activity; prepares voice activity records; makes verbatim translation from foreign language to English; scans written foreign language materials for key words and indicators; provides translation assistance to non-language-qualified analysts; extracts specific intelligence information from voice radio transmissions; researches and develops special project reports; presents oral reports; types in English and in language of proficiency; performs operation maintenance on equipment. **Skill Level 20:** Able to perform the duties required for Skill Level 10; intercepts, identifies, and records foreign voice transmissions; supervises a small unit; assembles, integrates, analyzes, and disseminates intelligence information covering political, economic, sociological, historical, and psychological factors of a geographic area; prepares special studies and reports as required; must have the following minimum capabilities in at least one foreign

language: vocabulary (aural recognition) of 6,000-8,000 words; 750-1,000 technical term items; knowledge of complex grammar and syntax; 85-90 percent of all existing word functions; 85-90 percent of all kinship terms; total comprehension of writing systems, except in languages with ideographic systems, where the ability to write 500 and read 1,500 characters is required. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises voice communication intercept activities; operates sophisticated equipment designed to collect and simultaneously produce on-line activity records of complex foreign voice radio transmissions containing technical terminology, advanced grammar/syntax, and colloquial conversational forms; directs voice signal collection and processing priorities; identifies and performs limited analysis on nonclear voice and nonvoice signals; writes complex reports; makes oral presentations to general staff; must achieve a fluent and accurate proficiency in one or more foreign languages and have the following minimum foreign language capabilities: vocabulary (aural recognition) of 8,000-10,000 words; 1,000-1,500 technical term items; advanced knowledge of grammar and syntax; 90-100 percent of all existing kinship terms and forms of address; must be able to write 700 and read 2,000 characters in an ideographic writing system. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises voice communication countermeasure activities; refines essential elements of information needed to support assigned mission; performs voice intercept and processing of highly complex foreign voice transmissions; prepares papers for use at high military and government levels; must achieve the following minimum capabilities in one or more foreign languages: vocabulary (aural recognition) of 10,000-15,000 words; 1,500-3,000 technical terms; total knowledge of word functions; total knowledge of kinship terms and forms of address; must be able to write 1,000 and read 2,500-3,000 characters in an ideographic writing system; uses counseling techniques to alleviate stress among subordinates. **Skill Level 50:** Able to perform the duties required for Skill Level 40; serves as electronic warfare/signal intelligence voice operations chief; evaluates and refines job requirements and system capabilities for communication intelligence linguists; must attain a foreign language proficiency equivalent to that of a well-educated native speaker and have the following minimum capabilities: vocabulary (aural recognition) of 15,000-plus words; 3,000-plus technical terms; advanced knowledge of grammar and syntax; must be able to write 1,500 and read 2,500-3,000 characters in ideographic writing systems.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding, 1 in computer literacy, and 3 in library research techniques. In the upper-division baccalaureate category, 3 semester hours in advanced written communications. NOTE: Add credit for the specific foreign language(s), using the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services as a minimum and awarding additional credit for foreign language

proficiency on the basis of institutional evaluation (9/88).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding, 2 in computer literacy, 3 in library research techniques, 3 in records administration, and 3 in geography. In the upper-division baccalaureate category, 6 semester hours in advanced written communications. NOTE: Add credit for the specific foreign language(s), using the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation (9/88).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding, 3 in computer literacy, 3 in library research techniques, 3 in records administration, 3 in geography, 3 in social science and humanities, 3 in human relations, and 2 in office practices. In the upper-division baccalaureate category, 6 semester hours in advanced written communications. NOTE: Add credit for the specific foreign language(s), using the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation (9/88).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding, 3 in computer literacy, 3 in library research techniques, 3 in records administration, 3 in geography, 6 in social science and humanities, 3 in human relations, 2 in office practices, 3 for a counseling practicum, and 3 for field experience in personnel supervision. In the upper-division baccalaureate category, 6 semester hours in advanced written communications and 3 for field experience in management. NOTE: Add credit for the specific foreign language(s), using the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation (9/88).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in keyboarding, 3 in computer literacy, 3 in library research techniques, 3 in records administration, 3 in geography, 6 in social science and humanities, 3 in human relations, 2 in office practices, 3 for a counseling practicum, and 3 for field experience in personnel supervision. In the upper-division baccalaureate category, 6 semester hours in advanced written communications, 6 for field experience in management, 3 in principles of management, and 3 in personnel management. NOTE: Add credit for the specific

foreign language(s), using the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation (9/88).

MOS-98G-004

VOICE INTERCEPTOR

98G10
98G20
98G30
98G40

Exhibit Dates: 10/90–2/95.

Career Management Field: 98 (Signals Intelligence/Electronic Warfare Operations).

Description

Summary: Conducts and supervises the interception, transcription, translation, and reporting of foreign voice transmissions in a mobile or fixed station environment. **NOTE:** Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledge associated with the MOS were evaluated. **Skill Level 10:** Operates intercept receivers including radio telephone and multichannel systems and recording equipment; selects, erects, and orients tactical antennas; makes written records of foreign voice transmissions which are composed of limited terminology and simple syntactic structures; identifies languages spoken in the geographic area to which assigned; categorizes foreign voice signals by type of activity; prepares voice activity records; makes verbatim translation from foreign language to English; scans written foreign language materials for keywords and indicators; provides translation assistance to non-language-qualified analysts; extracts specific intelligence information from voice radio transmissions; researches and develops special project reports; presents oral reports; types in English and in language of proficiency; performs operator maintenance on equipment; has a working knowledge of personal computers. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises and provides technical guidance to subordinates; intercepts, identifies, and records foreign voice transmissions; supervises a small unit; assembles, integrates, analyzes, and disseminates intelligence information covering political, economic, sociological, historical, and psychological factors of a geographical area; prepares special studies and reports as required; must have the following minimum capabilities in at least one foreign language: vocabulary (aural recognition) of 6,000-8,000 words; 750-1,000 technical term items; knowledge of complex grammar and syntax; 85-90 percent of all kinship terms; total comprehension of functions; 85-90 percent of all kinship terms; total comprehension of writing systems, except in languages with ideographic systems where the ability to write 500 and read 1,500 characters is required. **Skill Level 30:** Able to perform the duties required for Skill Level 20; supervises voice communication intercept activities; evaluates subordinates; operates sophisticated equipment designed to collect and simultaneously produce on-line activity records of complex foreign voice radio transmissions containing technical terminology, advanced grammar/syntax, and colloquial conversational

forms; directs voice signal collection and processing priorities; identifies and performs limited analysis on nonclear voice and nonvoice signals; writes complex reports; makes oral presentations to general staff; must achieve a fluent and accurate proficiency in one or more foreign language and have the following minimum foreign language capabilities: vocabulary (aural recognition) of 8,000-10,000 words; 1,000-1,500 technical term items; advanced knowledge of grammar and syntax; 90-100 percent of all existing kinship terms and forms of address; must be able to write 700 and read 2,000 characters in an ideographic writing system. **Skill Level 40:** Able to perform the duties required for Skill Level 30; supervises voice communication countermeasure activities; produces personnel evaluation reports; refines essential elements of information needed to support assigned mission; performs voice intercept and processing of highly complex foreign voice transmissions; prepares papers for use at high military and government levels; must achieve the following minimum capabilities in one or more foreign languages; vocabulary (aural recognition) of 10,000-15,000 words; 1,500-3,000 technical terms; total knowledge of word functions; total knowledge of kinship terms and forms of address; must be able to write 1,000 and read 2,500-3,000 characters in an ideographic writing system; uses counseling techniques to alleviate stress among subordinates.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in library research, 3 in computer literacy, and 3 in technical report writing. **(NOTE:** This recommendation for skill level 10 is valid for the dates 9/90-9/91 only). **NOTE:** Add credit for specific foreign language(s) using the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation (9/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in library research, 3 in computer literacy, 3 in technical report writing, 3 in cultural geography, and 3 in personnel supervision. **NOTE:** Add credit for the specific foreign language(s) using the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experience in the Armed Services as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in library research, 3 in computer literacy, 3 in technical report writing, 3 in cultural geography, 3 in personnel supervision, 2 in records and information management, 3 in office practices, and 3 in social sciences. **NOTE:** Add credit for the specific foreign language(s) using the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experience in the Armed Services as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation (9/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in library research, 3 in computer literacy, 3 in technical report writing, 3 in cultural geography, 3 in personnel supervision, 2 in records and information management, 3 in office practices, and 3 in social sciences. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management. **NOTE:** Add credit for the specific foreign language(s) using the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation (9/91).

MOS-98G-005

VOICE INTERCEPTOR

98G10
98G20
98G30
98G40

Exhibit Dates: 3/95–Present.

Career Management Field: 98 (Signals Intelligence/Electronic Warfare Operations).

Description

Summary: Conducts and supervises the interception, transcription, translation, and reporting of foreign voice transmissions in a mobile or fixed station environment. **NOTE:** Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledge associated with the MOS were evaluated. **Skill Level 10:** Operates intercept receivers including radio telephone and multichannel systems and recording equipment; selects, erects, and orients tactical antennas; makes written records of foreign voice transmissions which are composed of limited terminology and simple syntactic structures; identifies languages spoken in the geographic area to which assigned; categorizes foreign voice signals by type of activity; prepares voice activity records; makes verbatim translation from foreign language to English; scans written foreign language materials for keywords and indicators; provides translation assistance to non-language-qualified analysts; extracts specific intelligence information from voice radio transmissions; researches and develops special project reports; presents oral reports; types in English and in language of proficiency; performs operator maintenance on equipment; has a working knowledge of personal computers. **Skill Level 20:** Able to perform the duties required for Skill Level 10; supervises and provides technical guidance to subordinates; intercepts, identifies, and records foreign voice transmissions; supervises a small unit; assembles, integrates, analyzes, and disseminates intelligence information covering political, economic, sociological, historical, and psychological factors of a geographical area; prepares special studies and reports as required; must have the following minimum capabilities in at least one foreign language: vocabulary (aural recognition) of 6,000-8,000 words; 750-1,000 technical term items; knowledge of complex grammar and syntax; 85-90 percent of all kinship terms; total comprehension of functions; 85-90 percent of all kinship terms; total comprehension of writing systems, except in lan-

gences with ideographic systems where the ability to write 500 and read 1,500 characters is required. *Skill Level 30*: Able to perform the duties required for Skill Level 20; supervises voice communication intercept activities; evaluates subordinates; operates sophisticated equipment designed to collect and simultaneously produce on-line activity records of complex foreign voice radio transmissions containing technical terminology, advanced grammar/syntax, and colloquial conversational forms; directs voice signal collection and processing priorities; identifies and performs limited analysis on nonclear voice and nonvoice signals; writes complex reports; makes oral presentations to general staff; must achieve a fluent and accurate proficiency in one or more foreign language and have the following minimum foreign language capabilities: vocabulary (aural recognition) of 8,000-10,000 words; 1,000-1,500 technical term items; advanced knowledge of grammar and syntax, 90-100 percent of all existing kinship terms and forms of address; must be able to write 700 and read 2,000 characters in an ideographic writing system. *Skill Level 40*: Able to perform the duties required for Skill Level 30; supervises voice communication countermeasure activities; produces personnel evaluation reports; refines essential elements of information needed to support assigned mission; performs voice intercept and processing of highly complex foreign voice transmissions; prepares papers for use at high military and government levels; must achieve the following minimum capabilities in one or more foreign languages: vocabulary (aural recognition) of 10,000-15,000 words; 1,500-3,000 technical terms; total knowledge of word functions; total knowledge of kinship terms and forms of address; must be able to write 1,000 and read 2,500-3,000 characters in an ideographic writing system; uses counseling techniques to alleviate stress among subordinates.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (9/91).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in library research, 3 in computer literacy, 3 in technical report writing, 3 in cultural geography, 3 in personnel supervision, 2 in records and information management, and 3 in office practices. NOTE: Add credit for the specific foreign language(s) using the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experience in the Armed Services as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation (9/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in library research, 3 in computer literacy, 3 in technical report writing, 3 in cultural geography, 3 in personnel supervision, 2 in records and information management, 3 in office practices, and 3 in social sciences. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management. NOTE: Add credit for the specific foreign language(s) using the recommendation

in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation (9/91).

MOS-98H-001

MORSE INTERCEPTOR

98H10

98H20

98H30

98H40

Exhibit Dates: 3/90-Present.

Career Management Field: 98 (Signals Intelligence/Electronic Warfare Operations).

Description

Summary: Operates international Morse code message interception equipment, keyboard entry devices, and printer equipment; supervises the operation of such equipment in mobile or fixed installations for the purpose of detecting, identifying, and exploiting foreign communications. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledge associated with the MOS were evaluated. *Skill Level 10*: Operates Morse code interception equipment, including radio receivers, special typewriters, teletypewriters, computer input keyboards, antenna selection devices, internal communications equipment, and magnetic tape recorders; searches for, identifies, and manually records foreign international Morse code communications at a minimum rate of 20 groups per minute; performs first-level analysis of message to detect anomalies and suspect items which may be of intelligence interest; maintains operator's log of messages and related data and delivers messages to analysts for interpretation; performs operator maintenance on equipment; types at a minimum speed of 25 words per minute. *Skill Level 20*: Able to perform the duties required for Skill Level 10; supervises and provides technical guidance to subordinates; performs more detailed message analysis and evaluation prior to forwarding messages to other analysts; writes detailed reports regarding intercepted messages; conducts on-the-job training; presents oral reports to high-level command staff. *Skill Level 30*: Able to perform the duties required for Skill Level 20; supervises Morse intercept activities; establishes and maintains extensive intercept files for messages and related data; evaluates subordinates; assists in formulating unit deployment plans. *Skill Level 40*: Able to perform the duties required for Skill Level 30; allocates personnel and equipment resources; assists in designing collection strategies; may have experience as the enlisted commander of a detachment; analyzes automatic data processing results and confers with computer programmers and analysts; uses counseling techniques to alleviate stress among subordinates; produces evaluation reports of subordinates.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy and 3 in international Morse code. (NOTE: This recommendation for skill level 10 is valid for the dates 3/90-9/91 only) (9/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in international Morse code, and 3 in personnel supervision. (NOTE: This recommendation for skill level 20 is valid for the dates 3/90-2/95 only) (9/91).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in international Morse code, 3 in personnel supervision, 3 in records and information management, and 3 in technical report writing (9/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in international Morse code, 3 in personnel supervision, 3 in records and information management, and 3 in technical report writing. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (9/91).

MOS-98J-003

NONCOMMUNICATIONS INTERCEPTOR/ANALYST

98J10

98J20

98J30

98J40

Exhibit Dates: 1/90-2/95.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates noncommunications intercept recording and analysis equipment; intercepts, identifies, interprets, and analyzes signals from noncommunications sources; operates electro-optical receiving and analysis equipment. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledge associated with the MOS were evaluated. *Skill Level 10*: Erects noncommunications collection systems; conducts search for selected categories or classes of noncommunications or electro-optical signals; uses technical references and equipment to record and perform preliminary analysis and identification of intercepted signals of interest; determines line bearings or intercepted signals within specified limits; reports acquired information; posts entries and keeps logs; operates communications equipment for intelligence reporting and coordination. *Skill Level 20*: Able to perform the duties required for Skill Level 10; searches for general categories or classes of noncommunications or electro-optical signals; exercises quality control over intercept effort; uses indexed data base and technical references to fix origin of intercept and analysis reports, maps, and overlays; assists with fusion product reporting; establishes and maintains files. *Skill Level 30*: Able to perform the duties required for Skill Level 20; serves as a first-line supervisor of an intercept/analysis (noncommunications signals) activity; assigns search missions; intercepts and analyzes more complex noncommunications or electro-optical signals; prepares technical and administrative reports; makes recommendations on the employment of noncommunications intercept units; selects and establishes operations sites;

interprets and analyzes technical documents and reports; performs fusion analysis and intelligence reporting. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises noncommunications intercept, countermeasures, and analysis activities of 20 or more persons; based on requirements, determines objectives and priorities; assigns work loads and allocates resources among subordinate supervisors; coordinates activities with other units; evaluates requirements and assists in developing plans to meet future operation, personnel, and equipment needs; uses counseling techniques to alleviate stress among subordinates.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 2 semester hours in computer literacy and 3 in keyboarding. (NOTE: This recommendation for skill level 10 is valid for the dates 1/90-9/91 only) (9/88).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in keyboarding, 3 in written communications, and 2 in office practices (9/88).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in keyboarding, 3 in written communications, 3 in office practices, 3 in human relations, 3 in oral communications, and 3 in social science and humanities (9/88).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in keyboarding, 3 in written communications, 3 in office practices, 3 in human relations, 3 for a counseling practicum, 3 in oral communications, 3 in social science and humanities, and 3 for field experience in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (9/88).

MOS-98J-004

NONCOMMUNICATIONS INTERCEPTOR/ANALYST

98J10
98J20
98J30
98J40

Exhibit Dates: 3/95–Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates noncommunications intercept recording and analysis equipment; intercepts, identifies, interprets, and analyzes signals from noncommunications sources; operates electro-optical receiving and analysis equipment. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledge associated

with the MOS were evaluated. *Skill Level 10:* Erects noncommunications collection systems; conducts search for selected categories or classes of noncommunications or electro-optical signals; uses technical references and equipment to record and perform preliminary analysis and identification of intercepted signals of interest; determines line bearings or intercepted signals within specified limits; reports acquired information; posts entries and keeps logs; operates communications equipment for intelligence reporting and coordination. *Skill Level 20:* Able to perform the duties required for Skill Level 10; searches for general categories or classes of noncommunications or electro-optical signals; exercises quality control over intercept effort; uses indexed data base and technical references to fix origin of intercept and analysis reports, maps, and overlays; assists with fusion product reporting; establishes and maintains files. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as a first-line supervisor of an intercept/analysis (noncommunications signals) activity; assigns search missions; intercepts and analyzes more complex noncommunications or electro-optical signals; prepares technical and administrative reports; makes recommendations on the employment of noncommunications intercept units; selects and establishes operations sites; interprets and analyzes technical documents and reports; performs fusion analysis and intelligence reporting. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises noncommunications intercept, countermeasures, and analysis activities of 20 or more persons; based on requirements, determines objectives and priorities; assigns work loads and allocates resources among subordinate supervisors; coordinates activities with other units; evaluates requirements and assists in developing plans to meet future operation, personnel, and equipment needs; uses counseling techniques to alleviate stress among subordinates.

Recommendation, Skill Level 10

Credit may be granted on the basis of an individualized assessment of the student (9/88).

Recommendation, Skill Level 20

Credit may be granted on the basis of an individualized assessment of the student (9/88).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in keyboarding, 3 in written communications, 2 in office practices, 3 in human relations, and 3 in oral communications (9/88).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in electronic systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in keyboarding, 3 in written communications, 3 in office practices, 3 in human relations, 3 for a counseling practicum, 3 in oral communications, 3 in social science and humanities, and 3 for field experience in personnel supervision. In the upper-division baccalaureate category, 3 semester hours for field experience in management (9/88).

MOS-98K-001

NON-MORSE INTERCEPTOR/ANALYST

98K10
98K20
98K30
98K40

Exhibit Dates: 3/90–Present.

Career Management Field: 98 (Signals Intelligence/Electronic Warfare Operations).

Description

Summary: Operates non-Morse communications intercept and recording equipment and supervises the operation of such equipment in mobile or fixed environments for the purpose of identifying and recording foreign radioteletype, facsimile, and data communications transmissions. NOTE: Many of the duties for this MOS involve highly classified material, equipment, and activities; therefore, not all the competencies and knowledge associated with the MOS were evaluated. *Skill Level 10:* Operates radioteletype, facsimile, data intercept, and recording equipment; knows basic AC and DC theory, circuit electronic theory, basic frequency analysis, spectrum analysis, and functional algebra; searches for, identifies, and records foreign transmissions; maintains a log of interceptions; prepares technical reports; types at a minimum rate of 25 words per minute; has a working knowledge of personal computers; performs operator maintenance on non-Morse intercept equipment; selects, erects, and orients tactical antennas. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists in the establishment of operational sites; maintains the technical data base to support collection operations; employs special electronic equipment for complex signal analysis; analyzes intercepted communications for items of intelligence interest; prepares detailed reports; supervises and provides technical guidance to subordinates. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises non-Morse intercept activities; evaluates subordinates; allocates equipment and personnel resources; writes extensive reports to provide intelligence information; analyzes long-term trends using statistical analysis techniques; coordinates interaction with other collection and processing activities; conducts on-the-job training. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises non-Morse intercept activities; produces evaluation reports for subordinate personnel; interprets signal intelligence collection priorities; ensures proper handling of intelligence information; assesses procedures and operations for adequacy in meeting intelligence requirements and recommends changes; may have experience as the enlisted commander of detachment; uses counseling techniques to alleviate stress among subordinates.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy and 3 in office practices. (NOTE: This recommendation for skill level 10 is valid for the dates 3/90-9/91 only) (9/91).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in office practices, 3 in technical report writing, and 3 in personnel supervision.

(NOTE: This recommendation for skill level 20 is valid for the dates 3/90-2/95 only.) (9/91).

Recommendation, Skill Level 30

In the lower division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in office practices, 3 in technical report writing, 3 in personnel supervision, 3 in social sciences, and 2 in records and information management (9/91).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in office practices, 3 in technical report writing, 3 in personnel supervision, 3 in social sciences, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in organizational management (9/91).

MOS-98Z-002

SIGNALS INTELLIGENCE/ELECTRONIC WARFARE
CHIEF
98Z50

Exhibit Dates: 1/90–Present.

Career Management Field: 98 (Electronic Warfare./Cryptologic).

Description

Summary: NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledge associated with this MOS were evaluated. Serves as the principal authority on signal intelligence matters in a high-level military organization; directs signal intelligence activities and provides technical, operational, and administrative guidance to subordinates; interprets all signal intelligence requirements and develops signal intelligence tasks; evaluates military posture of other nations and determines the capabilities and limitations of US signal intelligence activities to meet the determined threats; reviews, evaluates, prepares, and implements plans and orders; assists high-level commanders in appraising the effectiveness of signal intelligence functions, publications, and procedures and recommends changes; advises commanders on matters of personal welfare, morale, assignment, utilization, promotion, privileges, discipline, and training; provides written and oral evaluations of subordinate personnel; prepares and presents written and oral reports to high-level personnel in the Department of the Army and other national agencies involved in the preparation of national security and intelligence policy; manages equipment, material, and support service resources. NOTE: May have progressed to 98Z50 from 98C40 (EW/Signal Intelligence Analyst), 98G50 (EW/Signal Intelligence Voice Interceptor), 98J40 (EW/Signal Intelligence Noncommunications Interceptor), 05H40 (EW/Signal Intelligence Morse Interceptor), 05K40 (EW/Signal Intelligence Non-Morse Interceptor); may have acquired proficiency in one or more foreign languages through the performance of a previously held MOS.

Recommendation

In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in office management, 3 in personnel management, and 3 in principles of management. NOTE: Add credit for the specific

foreign language(s) by referring to the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation (9/88).

Army Warrant Officer MOS Exhibits

MOS-130A-001

PERSHING MISSILE SYSTEM TECHNICIAN
130A0

Exhibit Dates: 1/90–5/92. MOS 130A has been discontinued.

Career Pattern

May have progressed to Pershing Missile System Technician from MOS 15E (Pershing Missile Crewmember), MOS 21G (Pershing Electronics Materiel Specialist), MOS 21L (Pershing Electronics Repairer), or MOS 46N (Pershing Electrical-Mechanical Repairer).

Description

Supervises the maintenance of field artillery missiles, fire control systems, and missile launching and handling equipment; oversees assembly of missiles; supervises utilization, testing, and maintenance of tools, specialized test sets, cable sets, and warhead assemblies; inspects and directs testing, servicing, and repair of missile launching and guidance equipment; supervises maintenance of missile components; determines repair/replacement requirements, ensures that repairs and adjustments are made, and makes final inspections; advises superiors on technical and tactical considerations affecting the employment of missiles; serves as a technical advisor on matters of preventive maintenance and inspection of radar, missiles, fire control systems, missile launching and handling equipment, and on-missile materiel; observes and corrects improper technical procedures and repair techniques; coordinates maintenance techniques and standards with preventive maintenance personnel to ensure uniformity; implements changes in inspection, repair, and test procedures and instructs personnel on new techniques of missile maintenance and repair; ensures that equipment modifications are accomplished; examines and interprets procedures, directives, schematics, and technical publications for data pertinent to the employment of radar, missiles, and related equipment and transmits data to subordinates; reviews operating and maintenance records and tests equipment to ascertain adequacy of maintenance; monitors storage of missile guidance and motor sections; ensures compliance with safety and security regulations and procedures; writes and reviews technical reports; reviews and consolidates requests for tools, spare parts, technical supplies, publications, and equipment; may serve as an instructor at a formal training school or be employed in missile procurement activities.

Recommendation

In the vocational certificate category, 1 semester hour in care and use of hand tools. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory, 3 in personnel supervision, 3 in technical report writing, 2 in maintenance management, 2 in industrial/human relations, and

additional credit in instructional methods on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours for field experience in management; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (3/77).

MOS-130B-001

LANCE MISSILE SYSTEM TECHNICIAN
130B0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to Lance Missile System Technician from MOS 13N (Lance Crewmember).

Description

Supervises the maintenance of field artillery missiles, fire control systems, and missile launching and handling equipment; oversees assembly of missiles; supervises utilization, testing, and maintenance of tools, specialized test sets, cable sets, and warhead assemblies; inspects and directs testing, servicing, and repair of missile launching and guidance equipment; supervises maintenance of missile components; determines repair/replacement requirements; ensures that repairs and adjustments are made and makes final inspections; advises superiors on technical and tactical considerations affecting the employment of missiles; serves as a technical advisor on matters of preventive maintenance and inspection of radar, missiles, fire control systems, missile launching and handling equipment, and on-missile materiel; observes and corrects improper technical procedures and repair techniques; coordinates technical maintenance procedures and repair techniques; coordinates maintenance techniques and standards with preventive maintenance personnel to ensure uniformity; implements changes in inspection, repair, and test procedures and instructs personnel on new techniques of missile maintenance and repair; ensures that equipment modifications are accomplished; examines and interprets procedures, directives, schematics, and technical publications for data pertinent to the employment of radar, missiles, and related equipment and transmits data to subordinates; reviews operating and maintenance records and tests equipment to ascertain adequacy of maintenance; monitors storage of missile guidance and motor sections; ensures compliance with safety and security regulations and procedures; writes and reviews technical reports; reviews and consolidates requests for tools, spare parts, technical supplies, publications, and equipment; may serve as an instructor at a formal training school or be employed in missile procurement activities.

Recommendation

In the vocational certificate category, 1 semester hour in care and use of hand tools. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory, 3 in personnel supervision, 3 for field experience in management, 3 in technical report writing, 2 in maintenance management, 2 in industrial/human relations and additional credit in instructional methods on the basis of institutional evaluation (3/77).

MOS-131A-001

TARGET ACQUISITION RADAR TECHNICIAN
131A0

Exhibit Dates: 1/90–8/94.

Career Pattern

May have progressed to Target Acquisition Radar Technician from any MOS in Career Management Field 13 (except MOS's 13B and 13M) and Career Management Field 29.

Description

Normally serves as chief of a section or platoon engaged in maintaining and operating field artillery radars to provide target location; has a detailed knowledge of the operational aspects of field artillery radar, the technical principles of equipment construction, the scope and techniques of field artillery radar, and safety precautions relevant to operations and maintenance; advises on technical considerations involving field artillery radar; coordinates the activities of field artillery radar personnel; supervises the movement and emplacement of radar and associated equipment; interprets technical data; implements changes in inspection, repair, and test procedures; instructs personnel on new or revised techniques of radar maintenance and employment; inspects completed work and assists personnel in isolating and correcting malfunctions in equipment; must be able to transmit target and counterfire data to support artillery units; reviews maintenance records; supervises the requisitioning of tools, repair parts, technical supplies, publications, and equipment; may serve as an instructor at a formal training school, on a headquarters staff, or in research, development, test, and evaluation activities.

Recommendation

In the vocational certificate category, 2 semester hours in use of basic hand tools. In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics theory and laboratory, 3 in personnel supervision, 3 for field experience in management, 2 in industrial/human relations, 2 in technical report writing, and 2 in maintenance management (3/77).

MOS-131A-002

TARGET ACQUISITION RADAR TECHNICIAN
131A0

Exhibit Dates: 9/94–Present.

Career Pattern

May have progressed to Target Acquisition Radar Technician from any MOS in Career Management Field 13 (except MOS's 13B and 13M) and Career Management Field 29.

Description

Normally serves as chief of a section or platoon engaged in maintaining and operating field artillery radars to provide target location; may supervise 6-11 subordinates; has a detailed knowledge of the operational aspects of field artillery Doppler radar, the technical principles of equipment construction, the scope of field artillery radar, and safety precautions relevant to operations and maintenance; advises on technical considerations involving field artillery radar; coordinates the activities of field artillery radar personnel; supervises the movement and emplacement of radar and associated equipment; interprets technical data; implements changes in inspection, repair, and test procedures; may prepare written revisions to technical manuals or revisions to Modification Work Orders when equipment is modified/updated; writes reports of evaluations and inspections of equipment problems; instructs personnel on new or revised techniques of radar electronics maintenance and employment; inspects completed work and assists personnel in isolating and correcting malfunctions in equipment; must be able to transmit target and counterfire data to support artillery units; reviews maintenance records; supervises the requisitioning of tools, repair parts, technical supplies, publications, and equipment; may serve as an instructor/writer at a formal service school; prepares, reviews, and presents instruction on radar systems; provides coordination between military and industry during the developing, testing, and fielding of new target acquisition systems; updates doctrine for target acquisition radars; may serve on a headquarters staff, or in research, development, test, and evaluation activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management, 3 in technical writing, 3 in records and information management, 3 in computer and data processing management, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 for field experience in management, and 3 in an education elective (instruction). If rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (9/94).

MOS-131B-001

REMOTELY PILOTED VEHICLE TECHNICIAN
131B0

Exhibit Dates: 1/90-4/92. **NOTE:** This MOS was deleted from the MOS system before an evaluation could be scheduled. Credit may be granted on the basis of institutional evaluation.

Description**MOS-132A-001**

METEOROLOGY TECHNICIAN
132A0

Exhibit Dates: 1/90-12/93. Effective 12/93, MOS 132A was discontinued.

Career Pattern

May have progressed to Meteorology Technician from MOS 93F (Field Artillery Meteorological Crewman).

Description

Normally serves as the chief of a meteorology section that provides ballistic meteorological data, not involving weather forecasting, to artillery units, is responsible for the organization and operation of the section and its physical facilities, as well as the supervision and training of enlisted specialists in the section; manages and allocates resources to install, operate, and maintain mercurial, aneroid, electronic, optical, and mechanical meteorological instruments and equipment; determines layout of ballistic meteorological stations and facilities and plans equipment installation; knows methods of observing and plotting meteorological data; inspects and tests meteorological equipment; determines operating procedures and techniques; allocates work to subordinates; determines requirements for, procures, and manages supplies, repair parts, and equipment; supervises calibration of graphs and other recording devices; evaluates ballistic meteorological data and produces messages to be transmitted to artillery units; instructs subordinates on established maintenance techniques and operating procedures; may serve as an instructor at a formal service school; may be employed in research, development, and evaluation activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in industrial/human relations, 2 in electronics laboratory, 1 in basic mathematics, and 1 in meteorology. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 in management electives (3/77).

MOS-140A-001

COMMAND AND CONTROL SYSTEMS TECHNICIAN
140A0

Exhibit Dates: 1/90-5/91.

Career Pattern

May have progressed to Command and Control Maintenance Technician from MOS 24C (Hawk Firing Section Mechanic), MOS 24E (Hawk Fire Control Mechanic), MOS 24G (Hawk Information Coordination Central Mechanic), MOS 24H (Hawk Fire Control Repairer), MOS 24J (Pulse Radar Repairer), MOS 24K (Hawk Continuous Wave Radar Repairer), MOS 24L (Hawk Launcher and Mechanical Systems Repairer), MOS 24R (Hawk Master Mechanic), MOS 24T (Patriot Operator and Systems Mechanic), MOS 24U (Nike-Hercules Custodial Mechanic), MOS 24V (Hawk Maintenance Chief), or MOS 24L (AN/TSQ 73 Air Defense Artillery Command and Control System Operator/Repairer).

Description

Coordinates the activities of 25-30 maintenance technicians and manages equipment for the installation, repair, maintenance, and modification of Army air defense command and control systems, including data processing equipment, radar equipment, communications equipment, and power system equipment;

develops maintenance procedures, performs hands-on troubleshooting when subordinates are unable to isolate problems; advises and instructs repair personnel; estimates repair priorities based on mission, type of work to be performed, and availability of parts and personnel; advises commissioned officers on command and control system capabilities and limitations.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in computer and data processing concepts, and 3 in training management. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in human resource management, and 6 for field experience in management. Credit in the following areas on the basis of institutional evaluation: computer electronics, computer system repair, radar systems, electronic communications, and power systems (11/88).

MOS-140A-002

COMMAND AND CONTROL SYSTEMS TECHNICIAN
140A0

Exhibit Dates: 6/91-Present.

Career Pattern

May have progressed to Command and Control Maintenance Technician from MOS 24C (Hawk Firing Section Mechanic), 24E (Hawk Fire Control Mechanic), 24G (Hawk Information Coordination Central Mechanic), 24H (Hawk Fire Control Repairer), 24J (Hawk Pulse Radar Repairer), 24K (Hawk Continuous Wave Radar Repairer), 24L (Hawk Launcher and Mechanical System Repairer), 24R (Hawk Master Mechanic), 24T (Patriot Operator and Systems Mechanic), 24U (Nike-Hercules Custodial Mechanic), 24V (Hawk Maintenance Chief), or 25L (AN/TSQ 73 Air Defense Artillery Command and Control System Operator/Repairer).

Description

Coordinates the activities of 25-30 maintenance technicians and manages equipment for the installation, repair, maintenance, and modification of Army air defense command and control systems, including data processing equipment, radar equipment, communications equipment, and power system equipment; develops maintenance procedures; performs hands-on troubleshooting when subordinates are unable to isolate problems; advises and instructs repair personnel; estimates repair priorities based on mission, type of work to be performed, and availability of parts and personnel; advises commissioned officers on command and control system capabilities and limitations.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in computer systems, and 3 in training management. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 in human resources management; if rank was CW2, 2 semester hours for field experience in management; if rank was CW3, 4 semester hours for field experience in management; if rank was CW4, 6 semester hours for field experience in management; if served as a Master Warrant Officer, 8 semester

hours for field experience in management (6/91).

MOS-140B-001

CHAPARRAL/VULCAN SYSTEMS TECHNICIAN
140B0

Exhibit Dates: 1/90-5/91.

Career Pattern

May have progressed to Chaparral/Vulcan Systems Technician from any of the following MOS's: 24C, 24E, 24G, 24H, 24J, 24K, 24L, 24M, 24N, 24R, 24S, 24T, 24U, 24V, 25L, 27F, or 27G.

Description

Supervises repair and maintenance of the Chaparral and Vulcan light air defense electronic systems and land combat support missile systems, including forward area alert radar and target alerting identification systems; supervises operation of maintenance shops, on-site maintenance activities, and shop quality control activities; knows theory, operation, and functioning of Chaparral/Vulcan systems and associated equipment including test and training equipment and motor support units; has knowledge of electricity, electronics, pneumatics, hydraulics, and mechanics; reads, uses, and interprets schematic diagrams and other technical publications; uses special tools and test equipment to maintain, adjust, troubleshoot, and repair system equipment; organizes, supervises, manages, and evaluates most phases of maintenance programs peculiar to the system and to its support equipment; acts in the capacity of maintenance officer in the absence of a line officer; coordinates activities with other maintenance organizations; supervises 20-50 subordinates; advises and assists in establishing training programs for operators and crewmembers; provides staff supervision for supply functions; supervises inventory and purchasing of maintenance parts, tools, and equipment; applies safety procedures pertaining to the missile systems and associated equipment; writes technical and administrative reports; advises superiors on the technical and tactical capabilities, limitations, and employment of the missile systems; may serve as an instructor at a formal training school or as a technical advisor on a headquarters staff.

Recommendation

In the vocational certificate category, 6 semester hours in electricity/electronics laboratory. In the lower-division baccalaureate/associate degree category, 5 semester hours in automotive mechanics, 5 in diesel mechanics, 5 in industrial truck mechanics, 3 in basic electronics, 3 in troubleshooting, 1 in shop practices and procedures, 1 in industrial safety, 3 in maintenance management, 3 in personnel supervision, 2 in inventory management, 2 in maintenance shop record keeping, 2 in report writing, and credit in public speaking/communication on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management electives; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management; if duty assignment was platoon leader, credit in leadership and supervision on the basis of institutional evaluation (5/77).

MOS-140B-002

CHAPARRAL/VULCAN SYSTEMS TECHNICIAN
140B0

Exhibit Dates: 6/91-3/92.

Career Pattern

May have progressed to Chaparral and Vulcan Systems Technician from MOS 24C (Hawk Firing Section Mechanic), 24E (Hawk Fire Control Mechanic), 24G (Hawk Information Coordination Central Mechanic), 24H (Hawk Fire Control Repairer), 24J (Hawk Pulse Radar Repairer), 24K (Hawk Continuous Wave Radar Repairer), 24L (Hawk Launcher and Mechanical Systems Repairer), 24M (Vulcan System Mechanic), 24N (Chaparral System Mechanic), 24R (Hawk Master Mechanic), 24S (Roland System Mechanic), 24T (Patriot Operator and Systems Mechanic), 24U (Nike-Hercules Custodial Mechanic), 24V (Hawk Maintenance Chief), 25L (AN/TSQ-73 Air Defense Artillery Command and Control System Operator/Repairer), 27F (Vulcan Repairer), or 27G (Chaparral/Redeye Repairer).

Description

Supervises repair and maintenance of the Chaparral and Vulcan light air defense electronic systems and land combat support missile systems, including forward area alert radar and target alerting identification systems; supervises operation of maintenance shops, on-site maintenance activities, and shop quality control activities; knows theory, operation, and functioning of Chaparral/Vulcan systems and associated equipment including test and training equipment and motor support units; applies knowledge of electricity, electronics, pneumatics, hydraulics, and mechanics; reads, uses, and interprets schematic diagrams and other technical publications; uses special tools and test equipment to maintain, adjust, troubleshoot, and repair system equipment; organizes, supervises, manages, and evaluates most phases of maintenance programs peculiar to the system and to its support equipment; acts in the capacity of maintenance officer in the absence of a line officer; coordinates activities with the other maintenance organizations; supervises 20-50 subordinates; advises and assists in establishing training programs for operators and crewman; provides staff supervision for supply functions; supervises inventory and purchasing of maintenance parts, tools, and equipment; applies safety procedures pertaining to the missile systems and associated equipment; writes technical and administrative reports; advises superiors on the technical and tactical capabilities, limitations, and employment of the missile systems; may serve as an instructor at a formal training school or as a technical advisor on a headquarters staff.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management, 3 in inventory management, 3 in personnel supervision, and 3 in report writing. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 in management electives; if rank was CW2, 2 semester hours for field experience in management; if rank was CW3, 4 semester hours for field experience in management; if rank was CW4, 6 semester hours for field experience in management; if served as

Master Warrant Officer (MW), 8 semester hours for field experience in management (6/91).

MOS-140B-003

SHORAD SYSTEMS TECHNICIAN
140B0

Exhibit Dates: 4/92-Present.

Career Pattern

May have progressed to SHORAD Systems Technician from MOS 23R (Hawk Missile System), 24C (Hawk Firing Section Mechanic), 24G (Hawk Information Coordination Central Mechanic), 24H (Hawk Fire Control Repairer), 24K (Hawk Continuous Wave Radar Repairer), 24M (Vulcan System Mechanic), 24N (Chaparral System Mechanic), 24R (Hawk Master Mechanic), 24T (Patriot Operator and Systems Mechanic), or 25L (AN/TSQ-73 Air Defense Artillery Command and Control System Operator/Repairer).

Description

Supervises repair and maintenance of the SHORAD light air defense electronic systems and land combat support missile systems including forward area alert radar and target alerting identification systems; supervises operation of maintenance shops, on-site maintenance activities, and shop quality control activities; knows theory, operation, and functioning of SHORAD systems and associated equipment including test and training equipment and motor support units; applies knowledge of electricity, electronics, pneumatics, hydraulics, and mechanics; reads, uses and interprets schematic diagrams and other technical publications; uses special tools and test equipment to maintain, adjust, troubleshoot, and repair system equipment; organizes, supervises, manages, and evaluates most phases of maintenance programs peculiar to the system and to its support equipment; acts in the capacity of maintenance officer in the absence of a line officer; coordinates activities with the other maintenance organizations; supervises 20-50 subordinates; advises and assists in establishing training programs for operators and crewman; knows and provides staff supervision for supply functions; supervises inventory and purchasing of maintenance parts, tools, and equipment; knows safety procedures pertaining to the missile systems and associated equipment; writes technical and administrative reports; advises superiors on the technical and tactical capabilities, limitations, and employment of the missile systems; may serve as an instructor at a formal training school or as a technical advisor on a headquarters staff.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management, 3 in inventory management, 3 in personnel supervision, and 3 in report writing. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 in management electives; if rank was CW2, 2 semester hours for field experience in management; if rank was CW3, 4 semester hours for field experience in management; if rank was CW4, 6 semester hours for field experience in management; if served as Master Warrant Officer, 8 semester hours for field experience in management (6/91).

MOS-140C-001

CUSTODIAL SYSTEMS TECHNICIAN
140C0

Exhibit Dates: 1/90-8/90 Effective 9/90,
MOS 140C was discontinued

Career Pattern

May have progressed to Custodial Systems Technician from MOS 24U (Nike-Hercules Custodial Mechanic).

Description

Supervises the assembly, testing, and maintenance of all components of Air Defense/Ballistic Missile Defense (AD/BMD) missiles; knows operations, theory, and on-line maintenance of missile testing and servicing equipment associated with warhead sections, fuses, electronic and mechanical on-missile guidance equipment, hydraulic systems, and propulsion units; knows theory and function of hydraulic systems, vacuum tubes, solid state devices, and associated circuits and circuit elements; performs checkouts of electronic, electrical, mechanical, electromechanical, and hydraulic systems; applies authorized procedure for modifying existing equipment; applies AD/BMD missile transport, storage, and safety program regulations and policies for nuclear and explosive components; applies theory, operation, and maintenance procedures for all launch area equipment; oversees uncrating and mating of missiles, rocket motor assemblies, and warhead sections; supervises emplacement of missiles and launch area equipment in mobile air defense units; applies maintenance record keeping and inventory control procedures; trains and evaluates missile maintenance personnel in troubleshooting and maintenance procedures; advises commander on the tactical aspects of missile employment, emplacement, readiness status, and firing.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in troubleshooting, 3 in technical mathematics, 3 in basic electronics, 3 in AC/DC circuit analysis, 3 in transistor theory, 3 in maintenance management, 2 in instrumentation, 2 in controls, 2 in pulse circuits, 2 in inventory management, 2 in personnel supervision, 2 in report writing, 1 in maintenance shop record keeping, and additional credit in controls, transistor theory, mathematics, hydraulics, and public speaking/communication on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management electives; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management; if duty assignment was platoon leader, credit in leadership and supervision on the basis of institutional evaluation (5/77).

MOS-140D-001

HAWK MISSILE SYSTEMS TECHNICIAN
140D0

Exhibit Dates: 1/90-5/91.

Career Pattern

May have progressed to Hawk Missile Systems Technician from any of the following

MOS's 24C, 24E, 24G, 24H, 24J, 24K, 24L, 24R, 24S, 24I, 24U, 24V, 25L, 27I, or 27G

Description

Supervises the assembly, inspection, and repair of the improved Hawk missile system, simulator equipment, and associated test equipment; understands theory, functions, and operation of on-missile guidance equipment, ranging radars, pulse radars, launchers, fire control equipment, simulator stations, computers, and automatic data transmission systems used with the improved Hawk air defense missile system and associated power generation and air conditioning equipment; applies theory and functions of solid state devices and associated circuits and circuit elements; assembles and tests components of missile, radar, and fire control equipment; supervises testing of system specialized test sets and procedures; supervises repairers in isolating malfunctions and in repairing, adjusting, and aligning systems and system components; advises personnel on equipment modifications and of changes to inspection, repair, test, and maintenance calibration procedures; applies safety procedures and regulations pertaining to high-energy electromagnetic radiation hazards, high-voltage hazards, and high-pressure hydraulic equipment; applies missile transport and storage methods; knows operation, function, and maintenance of battery terminal equipment; trains personnel in safety and security procedures and maintenance techniques; interprets technical publications; supervises parts inventory and supply system including procurement; reviews and prepares reports; evaluates supply and maintenance problems, advises superiors, and recommends actions to correct deficiencies; may serve as an instructor at a formal training school or in missile procurement activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in electronics troubleshooting, 3 in basic electronics, 3 in AC/DC circuit analysis, 3 in transistor theory, 3 in instrumentation, 2 in pulse circuits, 2 in control systems, 2 in digital circuitry, 2 in computer fundamentals, 1 in radar/microwave theory, 1 in machine language, 3 in maintenance management, 2 in inventory management, 2 in personnel supervision, 2 in report writing, 1 in maintenance shop record keeping, and additional credit in electronics, mathematics, data processing, computer science, and public speaking/communication on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management electives; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management; if duty assignment was platoon leader, credit in leadership and supervision on the basis of institutional evaluation (5/77).

MOS-140D-002

HAWK MISSILE SYSTEM TECHNICIAN
140D0

Exhibit Dates: 6/91-Present.

Career Pattern

May have progressed to Hawk Missile Systems Technician from MOS 24C (Hawk Firing Section Mechanic), 24E (Hawk Fire Control Mechanic), 24G (Hawk Information Coordination Central Mechanic), 24H (Hawk Fire Control Repairer), 24J (Hawk Pulse Radar Repairer), 24K (Hawk Continuous Wave Radar Repairer), 24L (Hawk Launcher and Mechanical Systems Repairer), 24R (Hawk Master Mechanic), 24S (Roland System Mechanic), 24T (Patriot Operator and Systems Mechanic), 24U (Nike-Hercules Custodial Mechanic), 24V (Hawk Maintenance Chief), 25L (AN/TSQ 73 Air Defense Artillery Command and Control System Operator/Repairer), 27F (Vulcan Repairer), or 27G (Chaparral/Redeye Repairer).

Description

Supervises the assembly, inspection, and repair of the Hawk and Hawk PIP III missile system, simulator equipment, and associated test equipment; understands theory, functions, and operation of on-missile guidance equipment, ranging radars, pulse radars, launchers, fire control equipment, simulator stations, computers, and automatic data transmission systems used with the Hawk and Hawk PIP III air defense missile systems and associated power generation and air conditioning equipment; knows theory and functions of solid state devices and associated circuits and circuit elements; assembles and tests components of missile, radar, and fire control equipment; supervises testing of system specialized test sets and procedures; supervises repairers in isolating malfunctions and in repairing, adjusting, and aligning systems and system components; advises personnel on equipment modifications and of changes to inspection, repair, test, and maintenance calibration procedures; applies safety procedures and regulations pertaining to high-energy electromagnetic radiation hazards, high-voltage hazards, and high-pressure hydraulic equipment; applies missile transport and storage methods; knows operation, function, and maintenance of battery terminal equipment; trains personnel in safety and security procedures and maintenance techniques; interprets technical publications; supervises parts inventory and supply system including procurement; reviews and prepares reports; evaluates supply and maintenance problems, advises superiors, and recommends actions to correct deficiencies; may serve as an instructor at a formal training school or in missile procurement activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management, 3 in inventory management, 3 in personnel supervision, and 3 in report writing. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 in management electives; if rank was CW2, 2 semester hours for field experience in management; if rank was CW3, 4 semester hours for field experience in management; if rank was CW4, 6 semester hours for field experience in management; if served as Master Warrant Officer, 8 semester hours for field experience in management (6/91).

MOS-140E-001

PATRIOT SYSTEM TECHNICIAN

(Patriot Missile System Technician)
140E0

Exhibit Dates: 1/90–5/91.

Career Pattern

May have progressed to Patriot System Technician from MOS 24C (Hawk Firing Section Mechanic), 24E (Hawk Fire Control Mechanic), 24G (Hawk Information Coordination Central Mechanic), 24H (Hawk Fire Control Repairer), 24J (Pulse Radar Repairer), 24K (Hawk Continuous Wave Radar Repairer), 24L (Hawk Launcher and Mechanical Systems Repairer), 24R (Hawk Master Mechanic), 24T (Patriot Operator and Systems Mechanic), 24U (Nike-Hercules Custodial Mechanic), 24V (Hawk Maintenance Chief), 25L (AN/TSQ 73 Air Defense Artillery Command and Control System Operator/Repairer), 27F (Vulcan Repairer), or 27G (Chaparral/Redeye Repairer).

Description

Supervises the repair and maintenance of Patriot air defense missile control equipment, data processing and simulator equipment, and radars; supervises the movement, emplacement, and testing of fire control and auxiliary equipment; understands theory, function, and operation of solid state devices, associated circuits, tracking radars, acquisition radars, interrogator equipment, computer data transmission systems, tactical control circuits, counter-countermeasure systems, and power supply equipment for Patriot air defense missile fire control equipment; supervises the use, testing, and maintenance of tools and test equipment used in diagnosing complex malfunctions in missile electronic ground guidance and tactical data processing equipment; monitors equipment during testing, simulations, and missile firing exercises to detect operator error and/or system malfunctions and initiates corrective action, if required; applies regulations and procedure required for working with high voltage, electromagnetic radiation, and X-rays; supervises emplacement, testing, and maintenance of fire control equipment; advises commander on employment of counter-countermeasures; knows operation, function, and maintenance of battery terminal equipment; trains maintenance and operator personnel in Patriot air defense missile control equipment; supervises parts inventory and supply system including procurement for Patriot air defense missile; supervises maintenance and operation inventory; evaluates effectiveness of maintenance programs, operator training, and parts and equipment supply operations; prepares reports.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics troubleshooting, 3 in technical mathematics, 3 in basic electronics, 3 in AC/DC circuit analysis, 3 in transistor theory, 3 in maintenance management, 2 in instrumentation, 2 in pulse circuits, 2 in digital circuitry, 2 in computer fundamentals, 2 in inventory management, 2 in personnel supervision, 2 in report writing, 1 in maintenance shop recordkeeping, 1 in control systems, 1 in radar/microwave theory, 1 in machine language, and additional credit in electronics, mathematics, data processing, computer science, and public speaking/communication on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management

electives; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management; if duty assignment was platoon leader, credit in leadership and supervision on the basis of institutional evaluation (5/77).

MOS-140E-002

PATRIOT MISSILE SYSTEM TECHNICIAN
140E0

Exhibit Dates: 6/91–Present.

Career Pattern

NOTE: May have progressed to Patriot Missile System Technician from MOS 24C (Hawk Firing Section Mechanic), 24E (Hawk Fire Control Mechanic), 24G (Hawk Information Coordination Central Mechanic), 24H (Hawk Fire Control Repairer), 24J (Hawk Pulse Radar Repairer), 24K (Hawk Continuous Wave Radar Repairer), 24L (Hawk Launcher and Mechanical Systems Repairer), 24R (Hawk Master Mechanic), 24T (Patriot Operator and Systems Mechanic), 24U (Nike-Hercules Custodial Mechanic), 24V (Hawk Maintenance Chief), 25L (AN/TSQ 73 Air Defense Artillery Command and Control System Operator/Repairer), 27F (Vulcan Repairer), or 27G (Chaparral/Redeye Repairer).

Description

Supervises the repair and maintenance of Patriot air defense missile control equipment, data processing and simulator equipment, and radars; supervises the movement, emplacement, and testing of fire control and auxiliary equipment; understands theory, function, and operation of solid state devices, associated circuits, tracking radars, acquisition radars, interrogator equipment, computer data transmission systems, tactical control circuits, counter-countermeasure systems, and power supply equipment for Patriot air defense missile fire control equipment; supervises the use, testing, and maintenance of tools and test equipment used in diagnosing complex malfunctions in missile electronic ground guidance and tactical data processing equipment; monitors equipment during testing, simulations, and missile firing exercises to detect operator error and/or system malfunctions and initiates corrective action, if required; applies regulations and procedures required for working with high voltage, electromagnetic radiation, and X-rays; supervises emplacement, testing, and maintenance of fire control equipment; advises commander on employment of counter-countermeasures; knows operation, function, and maintenance of battery terminal equipment; trains maintenance and operator personnel in Patriot air defense missile control equipment; supervises parts inventory and supply system including procurement for Patriot air defense missile; supervises maintenance and operation inventory; evaluates effectiveness of maintenance programs, operator training, and parts and equipment supply operations; prepares reports.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management, 3 in inventory management, 3 in personnel supervision, and 3 in report writing. In the upper-division baccalaureate category, 3 semester hours in personnel

management and 3 in management electives; if rank was CW2, 2 semester hours for field experience in management; if rank was CW3, 4 semester hours for field experience in management; if rank was CW4, 6 semester hours for field experience in management; if served as Master Warrant Officer (MW), 8 semester hours for field experience in management (6/91).

MOS-150A-001

AIR TRAFFIC CONTROL TECHNICIAN
150A0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to MOS 150A from 93C, Air Traffic Control Operator.

Description

Supervises and manages personnel in an Air Traffic Control organization. Senior warrant officer: Develops, revises, and reviews instrument en route and terminal procedures; provides technical expertise pertaining to all aspects of en route and terminal aircraft operations; supervises air traffic control training requirements. Master warrant officer: Able to perform the duties required for Senior warrant officer; conducts liaison with collateral units and functions as senior advisor for air traffic control operations; coordinates and establishes special-use airspace; develops and monitors standards for instruction of personnel.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision. In the upper-division baccalaureate category, 3 semester hours in organizational management, 3 in management problems, and 3 for field experience in management; if served as master warrant officer, 3 additional semester hours for field experience in management (4/90).

MOS-151A-001

AVIATION MAINTENANCE TECHNICIAN
151A0

Exhibit Dates: 1/90–12/90.

Career Pattern

May have progressed to Aviation Maintenance Technician from any aircraft maintenance MOS.

Description

Supervises aviation maintenance and repair shops, teams, sections, or platoons that maintain or repair army rotary- and fixed-wing aircraft; organizes and manages maintenance facilities, equipment, and personnel to inspect, service, test, disassemble, repair, reassemble, adjust, and retest aircraft or aircraft components; assigns work to subordinates and supervises work in progress, final inspection, and final testing; develops operating procedures and performs administrative duties related to supply and maintenance activities; provides technical assistance to pilots and flight crews concerning required crew maintenance of aircraft and aircraft components; interprets technical material related to aircraft maintenance.

Recommendation

In the vocational certificate category, 3 semester hours in essentials of supervision, 3 in technical writing, 2 in warehousing and storage, and 3 in maintenance management and inven-

tory control. In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management, 3 in shop practices and procedures, 2 in inventory management, 2 in material handling and safety, 3 in personnel supervision, 3 in survey of computer concepts, 2 in maintenance shop record keeping, and 3 in communication skills (speech/technical writing). In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 in management electives, if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management; if duty assignment was platoon leader, section leader, or equivalent leadership position, credit in leadership and supervision on the basis of institutional evaluation (7/78).

MOS-151A-002

AVIATION MAINTENANCE TECHNICIAN
151A0

Exhibit Dates: 1/91–Present.

Career Pattern

May have progressed to Aviation Maintenance technician from any enlisted aircraft maintenance MOS.

Description

Supervises aviation maintenance and repair shops, teams, sections, or facilities that maintain or repair army rotary- and fixed-wing aircraft; organizes and manages maintenance facilities, equipment, and personnel to inspect, service, test, disassemble, repair, reassemble, adjust, and retest aircraft or aircraft components; assigns work to subordinates and supervises work in progress, final inspection, and final testing; develops operating procedures and performs administrative duties related to supply and maintenance activities; provides technical assistance to pilot and flight crews concerning required crew maintenance of aircraft and aircraft components; interprets technical material related to aircraft maintenance.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management, 3 in personnel supervision, and 3 in records and information management. In the upper-division baccalaureate category, 3 semester hours in human resource management, 3 in management problems, 3 in operations management, 3 in organizational management, and 3 for field experience in management. If served as a senior warrant officer, 2 additional semester hours for field experience in management; if served as a master warrant officer, 3 additional semester hours for field experience in management (3/91).

MOS-152B-002

OH-58A/C SCOUT PILOT
152B0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to MOS 152B from any enlisted MOS.

Description

Pilots and commands attack and scout helicopters under tactical and nontactical conditions; operates aircraft during all types of

meteorological conditions during day, night, and while using night vision goggles; coordinates, conducts, and directs tactical helicopter operations; participates in reconnaissance and security missions; maintains current flight status in accordance with established training requirements; knowledge and skills are equivalent to FAA commercial/instrument ratings on rotorcraft category aircraft. NOTE: Knowledge and skills may be equivalent to other FAA certificates/ratings (flight instructor, instrument instructor, ground instructor, airline transport pilot, flight engineer, etc.) or the applicant may be trained on additional categories of aircraft.

Recommendation

In the lower-division baccalaureate/associate degree category, 18 semester hours in commercial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-division baccalaureate category, if served as instructor pilot (designated on Army records as 152BC), 3 semester hours in educational psychology, 3 in personnel management, and 3 in interpersonal communication; if served as an instrument flight examiner (designated on Army records as 152BF), 3 semester hours in airline transport pilot training; if served as section leader or aircraft repair maintenance technician (designated on Army records as 152BG), 3 semester hours in organizational management, 3 in accident investigation procedures, and 3 in aircraft systems management (4/90).

MOS-152C-002

OH-6 SCOUT PILOT
152C0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to MOS 152C from any enlisted MOS.

Description

Pilots and commands attack and scout helicopters under tactical and nontactical conditions; operates aircraft during day, night, and while using night vision goggles; coordinates, conducts, and directs tactical helicopter operations; participates in reconnaissance and security missions; maintains current flight status in accordance with established training requirements; knowledge and skills are equivalent to FAA commercial/instrument ratings on rotorcraft category aircraft. NOTE: Knowledge and skills may be equivalent to other FAA certificates/ratings (flight instructor, instrument instructor, ground instructor, airline transport pilot, flight engineer, etc.) or the applicant may be trained on additional categories of aircraft.

Recommendation

In the lower-division baccalaureate/associate degree category, 18 semester hours in commercial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-

division baccalaureate category, if served as instructor pilot (designated on Army records as 152CC), 3 semester hours in educational psychology, 3 in personnel management, and 3 in interpersonal communication; if served as an instrument flight examiner (designated on Army records as 152CF), 3 semester hours in airline transport pilot training; if served as section leader or aircraft repair maintenance technician (designated on Army records as 152CG), 3 semester hours in organizational management, 3 in accident investigation procedures, and 3 in aircraft systems management (4/90).

MOS-152D-002

OH-58D SCOUT PILOT
152D0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to MOS 152D from any enlisted MOS.

Description

Pilots and commands attack and scout helicopters under tactical and nontactical conditions; operates aircraft during all types of meteorological conditions during day, night, and while using night vision goggles; coordinates, conducts, and directs tactical helicopter operations; participates in reconnaissance and security missions; maintains current flight status in accordance with established training requirements; knowledge and skills are equivalent to FAA commercial/instrument ratings on rotorcraft category aircraft. NOTE: Knowledge and skills may be equivalent to other FAA certificates/ratings (flight instructor, instrument instructor, ground instructor, airline transport pilot, flight engineer, etc.) or the applicant may be trained on additional categories of aircraft.

Recommendation

In the lower-division baccalaureate/associate degree category, 18 semester hours in commercial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-division baccalaureate category, if served as instructor pilot (designated on Army records as 152DC), 3 semester hours in educational psychology, 3 in personnel management, and 3 in interpersonal communication; if served as an instrument flight examiner (designated on Army records as 152DF), 3 semester hours in airline transport pilot training; if served as section leader or aircraft repair maintenance technician (designated on Army records as 152DG), 3 semester hours in organizational management, 3 in accident investigation procedures, and 3 in aircraft systems management (4/90).

MOS-152F-002

AH-64 ATTACK PILOT
152F0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to MOS 152F from any enlisted MOS.

Description

Pilots and commands attack and scout helicopter under tactical and nontactical conditions; operates aircraft during all types of meteorological conditions during day, night, and while using night vision goggles; coordinates, conducts, and directs tactical helicopter operations; participates in reconnaissance and security missions; maintains current flight status in accordance with established training requirements; knowledge and skills are equivalent to FAA commercial/instrument ratings on rotorcraft category aircraft. **NOTE:** Knowledge and skills may be equivalent to other FAA certificates/ratings (flight instructor, instrument instructor, ground instructor, airline transport pilot, flight engineer, etc.) or the applicant may be trained on additional categories of aircraft.

Recommendation

In the lower-division baccalaureate/associate degree category, 18 semester hours in commercial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-division baccalaureate category, if served as instructor pilot (designated on Army records as 152FC), 3 semester hours in educational psychology, 3 in personnel management, and 3 in interpersonal communication; if served as an instrument flight examiner (designated on Army records as 152FF), 3 semester hours in airline transport pilot training; if served as section leader or aircraft repair maintenance technician (designated on Army records as 152FG), 3 semester hours in organizational management, 3 in accident investigation procedures, and 3 in aircraft systems management (4/90).

MOS-152G-002

AH-1 ATTACK PILOT
152G0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to MOS 152G from any enlisted MOS.

Description

Pilots and commands attack and scout helicopters under tactical and nontactical conditions; operates aircraft during all types of meteorological conditions during day, night, and while using night vision goggles; coordinates, conducts, and directs tactical helicopter operations; participates in reconnaissance and security missions; maintains current flight status in accordance with established training requirements; knowledge and skills are equivalent to FAA commercial/instrument ratings on rotorcraft category aircraft. **NOTE:** Knowledge and skills may be equivalent to other FAA certificates/ratings (flight instructor, instrument instructor, ground instructor, airline transport pilot, flight engineer, etc.) or the applicant may be trained on additional categories of aircraft.

Recommendation

In the lower-division baccalaureate/associate degree category, 18 semester hours in commercial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in

instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-division baccalaureate category, if served as instructor pilot (designated on Army records as 152GC), 3 semester hours in educational psychology, 3 in personnel management, and 3 in interpersonal communication; if served as an instrument flight examiner (designated on Army records as 152GF), 3 semester hours in airline transport pilot training; if served as section leader or aircraft repair maintenance technician (designated on Army records as 152GG), 3 semester hours in organizational management, 3 in accident investigation procedures, and 3 in aircraft systems management (4/90).

MOS-153A-002

ROTARY WING AVIATOR (AIRCRAFT NONSPECIFIC)
153A0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to MOS 153A from any enlisted MOS.

Description

Pilots and commands utility helicopters under tactical and nontactical conditions; operates aircraft during all types of meteorological conditions during day, night, and while using night vision goggles; performs aircraft operations, including rescue hoist, air assaults, aerial mine and flare deliveries, internal/external loads, and paratroop/rappelling procedures; may perform aerial reconnaissance and be used to transport passengers or cargo; routinely participates in combat and combat support training; maintains current flight status in accordance with established training requirements; knowledge and skills are equivalent to FAA commercial/instrument ratings on rotorcraft category aircraft. Knowledge and skills may be equivalent to other FAA certificates/ratings (flight instructor, instrument instructor, ground instructor, airline transport pilot, flight engineer, etc.) or the applicant may be trained on additional categories of aircraft.

Recommendation

In the lower-division baccalaureate/associate degree category, 18 semester hours in commercial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-division baccalaureate category, if served as instructor pilot (designated on Army records as 153AC), 3 semester hours in educational psychology, 3 in personnel management, and 3 in interpersonal communication; if served as an instrument flight examiner (designated on Army records as 153AF), 3 semester hours in airline transport pilot training; if served as section leader or aircraft repair maintenance technician (designated on Army records as 153AG), 3 semester hours in organizational management, 3 in accident investigation procedures, and 3 in aircraft systems management (4/90).

MOS-153B-002

UH-1 PILOT
153B0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to MOS 153B from any enlisted MOS.

Description

Pilot and commands utility helicopters under tactical and nontactical conditions; operates aircraft during all types of meteorological conditions, during day, night, and while using night vision goggles; performs aircraft operations, including rescue hoist, air assaults, aerial mine and flare deliveries, internal/external loads, and paratroop/rappelling procedures; may perform aerial reconnaissance and be used to transport passengers or cargo; routinely participates in combat support training requirements; knowledge and skills are equivalent to FAA commercial/instrument ratings on rotorcraft category aircraft. Knowledge and skills may be equivalent to other FAA certificates/ratings (flight instructor, instrument instructor, ground instructor, airline transport pilot, flight engineer, etc.) or the applicant may be trained on additional categories of aircraft.

Recommendation

In the lower-division baccalaureate/associate degree category, 18 semester hours in commercial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-division baccalaureate category, if served as instructor pilot (designated on Army records as 153BC), 3 semester hours in educational psychology, 3 in personnel management, and 3 in interpersonal communication; if served as an instrument flight examiner (designated on Army records as 153BF), 3 semester hours in airline transport pilot training; if served as section leader or aircraft repair maintenance technician (designated on Army records as 153BG), 3 semester hours in organizational management, 3 in accident investigation procedures, and 3 in aircraft systems management (4/90).

MOS-153C-002

OH-58A/C OBSERVATION PILOT
153C0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to MOS 153C from any enlisted MOS.

Description

Pilots and commands utility helicopters under tactical and nontactical conditions; operates aircraft during all types of meteorological conditions, during day, night, and while using night vision goggles; performs aircraft operations, including rescue hoist, air assaults, aerial mine and flare deliveries, internal/external loads, and paratroop/rappelling procedures; may perform aerial reconnaissance and be used to transport passengers or cargo; routinely participates in combat and combat support training; maintains current flight status in accordance with established training requirements; knowl-

edge and skills are equivalent to FAA commercial/instrument ratings on rotorcraft category aircraft. Knowledge and skills may be equivalent to other FAA certificates/ratings (flight instructor, instrument instructor, ground instructor, airline transport pilot, flight engineer, etc.) or the applicant may be trained on additional categories of aircraft.

Recommendation

In the lower division baccalaureate/associate degree category, 18 semester hours in commercial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-division baccalaureate category, if served as instructor pilot (designated on Army records as 153CC), 3 semester hours in educational psychology, 3 in personnel management, and 3 in interpersonal communication; if served as an instrument flight examiner (designated on Army records as 153CF), 3 semester hours in airline transport pilot training; if served as section leader or aircraft repair maintenance technician (designated on Army records as 153CG), 3 semester hours in organizational management, 3 in accident investigation procedures, and 3 in aircraft systems management (4/90).

MOS-153D-002

UH-60 Pilot
153D0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to MOS 153D from any enlisted MOS.

Description

Pilots and commands utility helicopters under tactical and nontactical conditions; operates aircraft during all types of meteorological conditions, during day, night, and while using night vision goggles; performs aircraft operations, including rescue hoist, air assaults, aerial mine and flare deliveries, internal/external loads, and paratroop/rappelling procedures; may perform aerial reconnaissance and be used to transport passengers or cargo; routinely participates in combat and combat support training; maintains current flight status in accordance with established training requirements; knowledge and skills are equivalent to FAA commercial/instrument ratings on rotorcraft category aircraft. Knowledge and skills may be equivalent to other FAA certificates/ratings (flight instructor, instrument instructor, ground instructor, airline transport pilot, flight engineer, etc.) or the applicant may be trained on additional categories of aircraft.

Recommendation

In the lower-division baccalaureate/associate degree category, 18 semester hours in commercial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-division baccalaureate category, if served as

instructor pilot (designated on Army records as 153DC), 3 semester hours in educational psychology, 3 in personnel management, and 3 in interpersonal communication; if served as an instrument flight examiner (designated on Army records as 153DE), 3 semester hours in airline transport pilot training; if served as section leader or aircraft repair maintenance technician (designated on Army records as 153DG), 3 semester hours in organizational management, 3 in accident investigation procedures, and 3 in aircraft systems management (4/90).

MOS-154A-002

CH-54 PILOT (HEAVY LIFT RC ONLY)
154A0

Exhibit Dates: 1/90–6/94. Effective 6/94, MOS 154A was discontinued, and its duties were incorporated into MOS 154C, CH-47D Pilot.

Career Pattern

May have progressed to MOS 154A from any enlisted MOS.

Description

Pilots and commands cargo helicopters under tactical and nontactical conditions; operates aircraft during all types of meteorological conditions during day, night, and while using night vision goggles; performs hoist, internal/external load, supply, paratroop/rappelling, and water operations; routinely participates in combat and combat support training; maintains current flight status in accordance with established training requirements; knowledge and skills are equivalent to FAA commercial/instrument ratings on rotorcraft category aircraft. Knowledge and skills may be equivalent to other FAA certificates/ratings (flight instructor, instrument instructor, ground instructor, airline transport pilot, flight engineer, etc.) or the applicant may be trained on additional categories of aircraft.

Recommendation

In the lower-division baccalaureate/associate degree category, 18 semester hours in commercial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-division baccalaureate category, if served as instructor pilot (designated on Army records as 154AC), 3 semester hours in educational psychology, 3 in personnel management, and 3 in interpersonal communication; if served as an instrument flight examiner (designated on Army records as 154AF), 3 semester hours in airline transport pilot training; if served as section leader or aircraft repair maintenance technician (designated on Army records as 154AG), 3 semester hours in organizational management, 3 in accident investigation procedures, and 3 in aircraft systems management (4/90).

MOS-154B-002

CH-47A/B/C PILOT
(CH-47 Pilot)
154B0

Exhibit Dates: 1/90–6/94. Effective 6/94, MOS 154B was discontinued and its duties were incorporated into MOS 154C, CH-47D Pilot.

Career Pattern

May have progressed to MOS 154B from any enlisted MOS.

Description

Pilots and commands cargo helicopters under tactical and nontactical conditions; operates aircraft during all types of meteorological conditions during day, night, and while using night vision goggles; performs hoist, internal/external load, supply, paratroop/rappelling, and water operations; routinely participates in combat and combat support training; maintains current flight status in accordance with established training requirements; knowledge and skills are equivalent to FAA commercial/instrument ratings on rotorcraft category aircraft. Knowledge and skills may be equivalent to other FAA certificates/ratings (flight instructor, instrument instructor, ground instructor, airline transport pilot, flight engineer, etc.) or the applicant may be trained on additional categories of aircraft.

Recommendation

In the lower-division baccalaureate/associate degree category, 18 semester hours in commercial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-division baccalaureate category, if served as instructor pilot (designated on Army records as 154BC), 3 semester hours in educational psychology, 3 in personnel management, and 3 in interpersonal communication; if served as an instrument flight examiner (designated on Army records as 154BF), 3 semester hours in airline transport pilot training; if served as section leader or aircraft repair maintenance technician (designated on Army records as 154BG), 3 semester hours in organizational management, 3 in accident investigation procedures, and 3 in aircraft systems management (4/90).

MOS-154C-002

CH-47D PILOT
154C0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to MOS 154C from any enlisted MOS.

Description

Pilots and commands cargo helicopters under tactical and nontactical conditions; operates aircraft during all types of meteorological conditions during day, night, and while using night vision goggles; performs hoist, internal/external load, supply, paratroop/rappelling, and water operations; routinely participates in combat and combat support training; maintains current flight status in accordance with established training requirements; knowledge and skills are equivalent to FAA commercial/instrument ratings on rotorcraft category aircraft. Knowledge and skills may be equivalent to other FAA certificates/ratings (flight instructor, instrument instructor, ground instructor, airline transport pilot, flight engineer, etc.) or the applicant may be trained on additional categories of aircraft.

Recommendation

In the lower-division baccalaureate/associate degree category, 18 semester hours in commercial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-division baccalaureate category, if served as

cial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-division baccalaureate category, if served as instructor pilot (designated on Army records as 154CC), 3 semester hours in educational psychology, 3 in personnel management, and 3 in interpersonal communication; if served as an instrument flight examiner (designated on Army records as 154CF), 3 semester hours in airline transport pilot training; if served as section leader or aircraft repair maintenance technician (designated on Army records as 154CG), 3 semester hours in organizational management, 3 in accident investigation procedures, and 3 in aircraft systems management (4/90).

MOS-155A-002

FIXED WING AVIATOR (AIRCRAFT NONSPECIFIC)
155A0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to MOS 155A from any pilot warrant officer MOS in the 152, 153, or 154 MOS series.

Description

Pilots and commands fixed-wing utility aircraft under tactical and nontactical conditions; operates aircraft during day and night; transports passengers and cargo; routinely performs instrument flight procedures, navigation, and airborne weather radar interpretation; performs military intelligence and airborne radio relay missions; maintains current flight status in accordance with established training requirements; knowledge and skills are equivalent to FAA commercial/instrument ratings on rotorcraft category aircraft. Knowledge and skills may be equivalent to other FAA certificates/ratings (flight instructor, instrument instructor, ground instructor, airline transport pilot, flight engineer, etc.) or the applicant may be trained on additional categories of aircraft.

Recommendation

In the lower-division baccalaureate/associate degree category, 18 semester hours in commercial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-division baccalaureate category, if served as instructor pilot (designated on Army records as 155AC), 3 semester hours in educational psychology, 3 in personnel management, and 3 in interpersonal communication; if served as an instrument flight examiner (designated on Army records as 155AF), 3 semester hours in airline transport pilot training; if served as section leader or aircraft repair maintenance technician (designated on Army records as 154AG), 3 semester hours in organizational management, 3 in accident investigation procedures, and 3 in aircraft systems management (4/90).

MOS-155D-002

U-21 PILOT
155D0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to MOS 155D from any pilot warrant officer MOS in the 152, 153, or 154 MOS series.

Description

Pilots and commands fixed-wing utility aircraft under tactical and nontactical conditions; operates aircraft during all types of meteorological conditions during day and night; transports passengers and cargo; routinely performs instrument flight procedures, navigation, and airborne weather radar interpretation; performs military intelligence and airborne radio relay missions; maintains current flight status in accordance with established training requirements; knowledge and skills are equivalent to FAA commercial/instrument ratings on rotorcraft category aircraft. Knowledge and skills may be equivalent to other FAA certificates/ratings (flight instructor, instrument instructor, ground instructor, airline transport pilot, flight engineer, etc.) or the applicant may be trained on additional categories of aircraft.

Recommendation

In the lower-division baccalaureate/associate degree category, 18 semester hours in commercial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-division baccalaureate category, if served as instructor pilot (designated on Army records as 155DC), 3 semester hours in educational psychology, 3 in personnel management, and 3 in interpersonal communication; if served as an instrument flight examiner (designated on Army records as 155DF), 3 semester hours in airline transport pilot training; if served as section leader or aircraft repair maintenance technician (designated on Army records as 155DG), 3 semester hours in organizational management, 3 in accident investigation procedures, and 3 in aircraft systems management (4/90).

MOS-155E-002

C-12 PILOT
155E0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to MOS 155E from any pilot warrant officer MOS in the 152, 153, or 154 MOS series.

Description

Pilots and commands fixed-wing utility aircraft under tactical and nontactical conditions; operates aircraft during all types of meteorological conditions during day and night; transports passengers and cargo; routinely performs instrument flight procedures, navigation, and airborne weather radar interpretation; performs military intelligence and airborne radio relay missions; maintains current flight status in accordance with established training requirements; knowledge and skills are equivalent to FAA commercial/instrument ratings on rotor-

craft category aircraft. Knowledge and skills may be equivalent to other FAA certificates/ratings (flight instructor, instrument instructor, ground instructor, airline transport pilot, flight engineer, etc.) or the applicant may be trained on additional categories of aircraft.

Recommendation

In the lower-division baccalaureate/associate degree category, 18 semester hours in commercial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-division baccalaureate category, if served as instructor pilot (designated on Army records as 155EC), 3 semester hours in educational psychology, 3 in personnel management, and 3 in interpersonal communication; if served as an instrument flight examiner (designated on Army records as 155EF), 3 semester hours in airline transport pilot training; if served as section leader or aircraft repair maintenance technician (designated on Army records as 155EG), 3 semester hours in organizational management, 3 in accident investigation procedures, and 3 in aircraft systems management (4/90).

MOS-156A-002

OV-1/RV-1 PILOT
156A0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to MOS 156A from warrant officer pilot MOS's 155A, 155D, or 155E.

Description

Pilots and commands fixed-wing surveillance aircraft under tactical and nontactical conditions; operates aircraft during all types of meteorological conditions during day and night; routinely performs instrument flight procedures, navigation, and airborne weather radar interpretation; performs military intelligence gathering, threat penetration, reconnaissance, imagery, message drop, and electronic countermeasure missions; maintains current flight status in accordance with established training requirements; knowledge and skills are equivalent to FAA commercial/instrument ratings on rotorcraft category aircraft. Knowledge and skills may be equivalent to other FAA certificates/ratings (flight instructor, instrument instructor, ground instructor, airline transport pilot, flight engineer, etc.) or the applicant may be trained on additional categories of aircraft.

Recommendation

In the lower-division baccalaureate/associate degree category, 18 semester hours in commercial/instrument rating, 3 in aircraft rules and procedures, 3 in navigation (VFR), 3 in flight physiology, 3 in aviation meteorology, 3 in instrument flight planning and procedures, 3 in aircraft engines and systems, 3 in aircraft performance, 3 in general mathematics, 3 in aviation safety, 3 in communication skills (oral), and 3 in principles of supervision. In the upper-division baccalaureate category, if served as instructor pilot (designated on Army records as 156AC), 3 semester hours in educational psychology, 3 in personnel management, and 3 in

interpersonal communication; if served as an instrument flight examiner (designated on Army records as 156AF), 3 semester hours in airline transport pilot training; if served as section leader or aircraft repair maintenance technician (designated on Army records as 156AG), 3 semester hours in organizational management, 3 in accident investigation procedures, and 3 in aircraft systems management (4/90).

MOS-180A-001

SPECIAL OPERATIONS TECHNICIAN
180A0

Exhibit Dates: 1/90–Present

Career Pattern

May have progressed to MOS 180A from MOS 18B (Special Operations Weapons Sergeant), 18C (Special Operations Engineer Sergeant), 18D (Special Operations Medical Sergeant), 18E (Special Operations Communications Sergeant), 18F (Special Operations Intelligence Sergeant), or 18Z (Special Operations Senior Sergeant).

Description

Duties primarily involve participation in a special operations team or detachment involving unconventional warfare, foreign internal defense, strike operations, strategic reconnaissance, and counterterrorism; the operational detachment works unilaterally or with foreign military forces; duties frequently require regional orientation including foreign language proficiency and in-country experience; duties include participation in waterborne, jungle, desert, mountain, and winter operations; many of the duties are highly classified. Manages and supervises special operations team members and technicians in communications, weapons, engineering, medicine, and operations techniques; conducts management assistance, planning, and training of special operations detachments; provides technical expertise in administration, logistics, intelligence, planning, and training; manages, supervises, and trains from 12 to 100 persons.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 in technical report writing. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 for a practicum in instructional techniques, and 6 for field experience in management (5/87).

MOS-210A-001

UTILITIES OPERATION AND MAINTENANCE
TECHNICIAN
210A0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to Utilities Operation and Maintenance Technician from MOS 52D (Power Generation Equipment Repairer), 52E (Prime Power Production Specialist), or 52F (Turbine Engine Driven Generator).

Description

Manages personnel engaged in utility operation and maintenance; performs administrative, supply management, and quality control functions that ensure operation, delivery, and maintenance of utilities for an installation, hospital, or associated activity; manages and applies the fundamentals of installation, operation, and

maintenance of water supply, plumbing, heating, sewage, electrical, refrigeration, air conditioning, and fire fighting systems and power stations; estimates material and personnel requirements for maintenance and repair of utility plants and systems; reads and interprets blueprints, schematics, and electrical diagrams; applies electrical, electronic, and mechanical theory relevant to electrical power plants using steam, gas, or diesel-powered generating units; applies basic principles of military, civilian, and contractor procedures and personnel management; uses technical publications of operating principles of utilities plants and systems; diagnoses difficulties; plans maintenance and repair schedules and procedures; manages personnel and equipment engaged in the production of electrical power; determines maintenance and repair requirements and establishes work priorities; allocates maintenance and repair resources; establishes shop practices and policies; directs activities of plant and shift supervisors, electricians, mechanics, instrumentation and process control technicians, and health physics specialists; supervises installation and maintenance of high-voltage electrical power transmission lines and substations; establishes operating procedures for power plant operations, maintenance, equipment inspections, and industrial safety programs; supervises preparation of operating, malfunction, and supply reports; directs procurement and distribution of supplies, tools, and equipment; administers appropriate budgets; acts as technical advisor to commanders concerned with utilities operations; may serve as service school instructor; serves as station or power plant superintendent, power system technician, or section or team chief; may directly supervise up to 100 persons; may be able to apply occupational skill to specialized features of nuclear power plants or of ballistic missile (Safeguard System) support equipment.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial safety, 3 in shop management, 3 in material management, 3 in personnel supervision, 3 in office administration, 3 in record keeping, 3 in technical writing, 3 in human relations, and credit in ballistic missile support equipment repair and nuclear power on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in management problems, 3 in management and training, and 2 for field experience in management; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management; if duty assignment was service school instructor, 6 semester hours for a practicum in education (11/77).

MOS-213A-001

ENGINEER EQUIPMENT REPAIR TECHNICIAN
213A0

Exhibit Dates: 1/90–12/93. Effective 12/93, MOS 213A was discontinued, and its duties were incorporated into MOS 919A, Engineer Equipment Repair Technician.

Career Pattern

May have progressed to Engineer Equipment Repair Technician from MOS 52C (Utilities

Equipment Repairer), MOS 52D (Power Generation Equipment Repairer), MOS 52F (Turbine Engine Driven Generator Repairer), MOS 62B (Construction Equipment Repairer), or MOS 62N (Construction Equipment Supervisor).

Description

Supervises personnel engaged in maintenance of engineer equipment, analyzes malfunctions and supervises minor repair and adjustment of engineer equipment utilized for power generation, earth moving, shaping and compacting, lifting and loading, quarrying and rock crushing, asphalt/concrete mixing and surfacing, water purification, refrigeration and air conditioning, missile system support, water gap crossing, transfer, and engineer electronic applications; supervises modification of equipment required by work orders, inspects incoming equipment to determine repair requirements; assigns work and inspects outgoing equipment; establishes maintenance and repair schedules; establishes internal administrative procedures for procurement, storage, and distribution of tools, parts, and publications.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in administrative office management, 3 in business communication, 3 in record keeping, 3 in computer and data processing concepts, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, 3 for field experience in management, 3 in education electives (instruction and counseling), and additional credit in leadership and supervision on the basis of institutional evaluation; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (5/78).

MOS-215A-001

PHOTOMAPPING TECHNICIAN
215A0

Exhibit Dates: 1/90–3/91. Effective 4/91, MOS 215A was discontinued.

Career Pattern

May have progressed to Photomapping Technician from MOS 81C, Cartographer.

Description

Supervises activities and personnel engaged in preparation and revision of military maps, charts, and orthophotographs; supervises technical and specialized photogrammetric and drafting procedures used in the preparation of detailed military maps, mosaics, overlays, and prints; applies photogrammetric techniques and principles and performs topographic drafting operations and procedures; establishes work priorities; assigns duties; solves unusual problems in map making; prepares records and reports; writes technical reports.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in plant or office management, 3 in technical report writing, 3 in photogrammetry, and 3 in aerial photographic interpretation. In the upper-division baccalaureate category, 3 semester hours in personnel management and

training, 3 for management electives, and 3 for field experience in management; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (6/78).

MOS-215B-001

SURVEY TECHNICIAN
215B0

Exhibit Dates: 1/90–3/91. Effective 4/91. MOS 215B was discontinued.

Career Pattern

NOTE: This MOS was formerly designated 821A. May have progressed to Survey Technician from MOS 82C (Field Artillery Surveyor) or MOS 82D (Topographic Surveyor).

Description

Manages field surveying activities and personnel in support of map making and artillery survey requirements; supervises technical and special procedures employed by survey parties; applies land, highway, and topographic surveying procedures; prepares and interprets aerial photographs and topographic maps; applies basic survey methods such as traverse, triangulation, and resection; uses standard survey computing forms; applies methods for determining azimuth by astronomical or other means; uses astronomical publications such as star lists and ephemeris; coordinates the activities of crews engaged in land, highway, and topographic surveys; adapts survey methods to terrain conditions; converts grid and geographical coordinates; uses trigonometry in various calculations; interprets ground maps, aerial photographs, and map substitutes; ensures exact location of points, distances, elevations, lines, areas, and contours in map making efforts; keeps accurate records of secured data; oversees proper use of surveying instruments; verifies accuracy of data obtained from surveys; makes appropriate calculations for map making, using reference tables, standard data, and mathematical formulas; establishes work priorities; designates survey parties and teams; solves complex and unusual problems encountered during survey operations; supervises accountability and maintenance of equipment; maintains records and reports of surveying activities; may serve as a service school instructor.

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in management problems, 3 in quality control, 3 in records management, 3 in personnel management, 3 in supervision and leadership, and 2 for field experience in management; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management; and additional credit in geodetic or related sciences and cartography on the basis of institutional evaluation. Has knowledge of surveying or geodetic science equivalent to an associate degree (30-40 semester hours, depending on the general education requirements) in geometric technology (11/77).

MOS-215C-001

REPRODUCTION TECHNICIAN
215C0

Exhibit Dates: 1/90–3/91. Effective 4/91. MOS 215C was discontinued.

Career Pattern

NOTE: This MOS was formerly designated 833A. May have progressed to Reproduction Technician from MOS 83E (Photo and Layout Specialist) or MOS 83F (Printing and Bindery Specialist).

Description

Supervises fixed and mobile platoons and teams engaged in the reproduction of maps, related material, or psychological operations material; organizes activities, schedules production, and establishes procedures; oversees maintenance of equipment; supervises reproduction of topographic maps, pictomaps, overlays, and overprints; applies lithographic reproduction quality standards and color separation processes; prepares records and reports; writes technical reports.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in production control, 3 in technical report writing, and 6 for field experience in graphic arts. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management electives, and 2 for field experience in management; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (5/78).

MOS-215D-001

TERRAIN ANALYSIS TECHNICIAN
215D0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to Terrain Analysis Technician from MOS 81Q (Terrain Analyst), 81C (Cartographer), 82D (Topographic Surveyor), 93E (Meteorological Observer), or 96B (Intelligence Analyst).

Description

Supervises activities and personnel in identification, analysis, synthesis, production, and dissemination of terrain information; collects data; designs and develops graphics; identifies project needs; analyzes impact of weather; briefs commanders; develops automated and manual filing systems; supervises use and operation of computer-aided equipment; interacts with other units; understands elements of soils, vegetation, geology, weather hydrology, and their relationship to each other; prepares lengthy reports; presents oral briefings.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in public speaking and 3 in expository writing. In the upper-division baccalaureate category, 3 semester hours in advanced physical geography, 3 in geodesy, 3 in geographic information systems, 3 in human resource management, and 3-6 semester hours for field experience in management (7/88).

MOS-250A-001

COMMUNICATIONS SECURITY TECHNICIAN
(Telecommunications Technician)
250A0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to MOS 250A from MOS 72E (Tactical Telecommunications Center Operator), 72G (Automatic Data Telecommunications Center Operator), 29F (Fixed Communications Security Equipment Repairer), 29S (Field Communications Security Equipment Repairer), and 29P (Communications Security Maintenance Chief).

Description

Manages and supervises personnel, equipment, and facilities for the operation of mobile and fixed communication center or activities; supervises personnel engaged in transmitting messages and operating communications or data processing equipment; performs systems analysis; assigns work to subordinates; plans, supervises and conducts training; assumes responsibility for accounts; is accountable for procurement, storage, and use of communications equipment; may supervise, inspect and evaluate operations associated with automated message processing centers and automatic digital switches or terminals; supervises testing, adjusting, and repairing of communications security equipment in either fixed locations or in logistic support facilities; may serve as a service school instructor; may serve as an advisor to members of allied armies; may serve as a commodity manager for communications sections, material, and in procurement, research, developmental, tests, and evaluation activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in administrative office management, 3 in business communications, 3 in record keeping, 3 in computer and data processing concepts, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, 3 for field experience in management, 3 in education electives (instruction and counseling) and additional credit in leadership and supervision on the basis of institutional evaluation; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (5/78).

MOS-250A-002

COMMUNICATIONS SECURITY TECHNICIAN
250A0

Exhibit Dates: 10/93–Present.

Career Pattern

May have progressed to MOS 250A from MOS 29S (Communications Security Equipment Repairer) or 74C (Record Telecommunications Center Operator).

Description

Manages, plans, designs, and engineers automation, communications, and visual information systems at all command levels of army; installs, supervises, and evaluates systems; operates state of the art communications sys-

tems, including telephone, cable, switching circuit control, high frequency radio, microwave, and satellite, uses word processing equipment in preparation of technical reports and in writing revisions for technical training manuals, manages and supervises personnel, equipment, and facilities for the operation of mobile and fixed communications center or activities, supervises personnel engaged in transmitting messages and operating communications or data processing equipment; performs systems analysis; organizes communications center activities; assigns work to subordinates; plans, supervises and conducts training; is accountable for procurement, storage, and use of communications equipment; supervises testing, adjusting, and repairing of communications security equipment in either fixed locations or in logistic support facilities; may serve as a service school instructor; may serve as an advisor to member of allied armies; may serve as a commodity manager in procurement, research, development, tests, and evaluation activities; develops new equipment fielding plans; serves as communications security advisor to the commander and ensures compliance with security regulations; ensures proper employment and support of communications that are fully secure.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in service center management, 3 in maintenance management, 3 in office administration, 3 in business communications, 3 in records and information management, 3 in computer and data processing concepts, and 3 in technical writing. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 for field experience in management, 3 in education electives (instruction and counseling), 3 in strategic planning, 3 in systems management, 3 in organizational management, and 3 in material requirements planning; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (10/93).

MOS-250B-001

TACTICAL AUTOMATED NETWORK TECHNICIAN
250B0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to Tactical Automated Network Technician from MOS 31F (Mobile Subscriber Equipment Network Switching System Operator), 31W (Mobile Subscriber Equipment Communications Chief), 31Y (Communications Systems Supervisor), 31Z (Communications-Operations Chief), 36L (Transportable Electronic Switching Systems Operator/Maintainer), or 72E (Telecommunications Center Operator).

Description

Manages and supervises the operation of tactical automated network message circuits and data switching systems; plans, conducts, and supervises training on automated switching networks; coordinates network troubleshooting and restoration of systems; serves as network manager for mobile subscriber equipment tactical communications systems; plans, directs, and manages the deployment, installation, activa-

tion, and movement of communications facilities comprising the networks; loads and runs system diagnostics.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (6/90).

MOS-251A-001

DATA PROCESSING TECHNICIAN
251A0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to Data Processing Technician from MOS 74D (Computer/Machine Operator), MOS 74F (Programmer Analyst), or MOS 74Z (Data Processing NCO).

Description

Directs and coordinates production activities of electronic data processing element or unit, including functional or machine design applications, programming, or operation of automatic data processing (ADP) equipment; analyzes, plans, and manages the development, test, evaluation, and modification of automatic data processing systems; plans and coordinates activities of data processing personnel engaged in programming and debugging programs; establishes work standards; supervises coding and machine processing of data; develops training programs; interprets policies, purposes, and goals of ADP activity for subordinates; participates in decisions regarding personnel staffing, allocation of ADP resources, and equipment acquisition.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing principles, 3 in computer fundamentals, 3 in technical report writing, 3 in business communications, 3 in computer operating systems, 3 in computer facility management, 3 in personnel supervision, and additional credit in the appropriate computer languages on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in computer systems and program design, 3 in personnel management, and 3 in management electives; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (6/78).

MOS-252A-001

TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT
(TMDE) TECHNICIAN
(Calibration and Repair Technician)
(Calibration Technician)
252A0

Exhibit Dates: 1/90–8/91. Effective 9/91, MOS 252A was redesignated MOS 918A; see exhibit MOS-918A-001.

Career Pattern

May have progressed to Calibration Technician from MOS 35H (Calibration Specialist).

Description

Supervises or performs repair and calibration of precision equipment used for the measuring, testing, controlling, and indicating of temperature, pressure, vacuum, fluid flow, liquid level, mechanical motion, rotation, humidity, density, acidity, alkalinity, and combustion (equipment may include tools, dial pressure gauges, scales, balances, direction and sighting devices, oscilloscopes, meters, digital test equipment, signal generators, power supplies, and specialized mechanical and electronic testing equipment); maintains equipment within prescribed manufacturer standards and national or international bureau of standards tolerances and ensures that calibration surveillance standards are met; manages activities and personnel engaged in calibration of instruments or system components of all types of Army equipment and weapons; interprets and analyzes measurement data and specifications of equipment, instruments, or gauges to conform to specified standards; develops procedures for testing and diagnosing malfunctions or implements established guidance to adjust or repair item requiring calibration; interprets technical data, schematics, and transfer standards in the use and operation of material; supervises testing systems to isolate malfunctions and faulty components; instructs subordinates on the correctional adjustments to obtain special readings or characteristics such as frequency or inductance; certifies instruments for accuracy; may be assigned chief of section engaged in calibration activities and may supervise up to 50 calibration technicians; may be employed as a contracting officer's representative to monitor and evaluate the performance of contractor personnel performing maintenance calibration functions for the Army; may be assigned as a service school instructor at Army or joint service schools and typically is involved in writing of training materials and teaching of update courses to subordinates; may oversee budget of calibration unit, office, personnel, job placement, employee relations, shipping of equipment, and other essential officer-level duties.

Recommendation

In the vocational certificate category, 3 semester hours in technical electives. In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity/electronics, 6 in circuits, 3 in troubleshooting techniques, 3 in electronic measurement laboratory, 3 in personnel supervision and human relations, and 3 in technical writing and report preparation. In the upper-division baccalaureate category, 6 semester hours in management electives and 3 in education electives (8/79).

MOS-256A-001

COMMUNICATIONS-ELECTRONICS REPAIR
TECHNICIAN
256A0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to Communications-Electronics Equipment Repair Technician from any of the following MOS's: 39C, 29E, 29J, 29M, 29T, 29U, 29W, 29Y, 35L, 35M, 35P, 35R, and 39E.

Description

Manages personnel and equipment in the installation, maintenance, and modification of radio, radar, television, microwave, navigation,

avionic, wire communication equipment, and associated tools, tests sets and accessory equipment; receives and inspects equipment; prepares work assignments for subordinates; plans and implements maintenance schedules; develops repair and operating procedures and ensures quality control; instructs personnel on test and maintenance procedures; supervises general technical and complex repair of communications-electronic equipment at all command levels; estimates repair requirements and costs; advises commander or staff officers on communications equipment development, procurement, capabilities, limitations, and employment; may serve as service school instructor; may serve as advisor to members of allied armies; may serve with procurement; may serve in research, development, and evaluation activities related to communications equipment.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in administrative office management, 3 in business communications, 3 in record keeping, 3 in computer and data processing concepts, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, 3 for field experience in management, 3 in education electives (instruction and counseling) and additional credit in leadership and supervision on the basis of institutional evaluation; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (5/78).

MOS-256A-002

SIGNAL SYSTEMS MAINTENANCE TECHNICIAN
256A0

Exhibit Dates: 10/93–Present.

Career Pattern

May have progressed to Signal Systems Maintenance Technician from any of the following MOS's: 29E, 29J, 29T, 29V, 29W, 29Y, 39C, 39E, 39G, 39L, 39V, or 68P.

Description

Manages personnel and equipment in the installation, maintenance, and modification of radio, radar, television, microwave, navigation, avionic, wire communication equipment, and associated tools, tests sets, and accessory equipment; receives and inspects equipment; prepares work assignments for subordinates; plans and implements maintenance schedules; develops repair and operating procedures and ensures quality control; instructs personnel on test and maintenance procedures; diagnoses and supervises complex repair of communications equipment development, procurement, capabilities, limitations, and employment; knows and uses operating systems and software, including DOS, OS2, UNIX, Harvard Graphics, Word Perfect, and Windows; writes extensive reports of evaluations and inspections of communications equipment problems; writes recommended changes to user advisor to members of allied armies; may serve as advisor to member of allied armies; may serve with procurement; may serve in research, development, and evaluation

activities related to communications equipment.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in service center management, 3 in maintenance management, 3 in administrative office management, 3 in technical writing, 3 in records and information management, 3 in computer and data processing concepts, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 for field experience in management, 3 in education electives (instruction and counseling), 3 in systems management, and 3 in logistics management; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (10/93).

MOS-257A-001

DATA PROCESSING SYSTEMS REPAIR TECHNICIAN
257A0

Exhibit Dates: 1/90–8/90. Effective 9/90, MOS 257A was discontinued.

Career Pattern

May have progressed to Data Processing Systems Repair Technician from any of the following MOS's: 25L, 29G, 29H, 39D, 39K, and 39Y.

Description

Manages personnel and equipment involved in the installation, operation, repair, maintenance, and modification of punch card, electronic data processing, command and control systems, and ancillary equipment and tools; develops operating procedures; interprets technical data; advises and instructs repair personnel; solves unusually complex problems of diagnosis, repair, and modification; establishes repair priorities; estimates repair requirements and costs; advises commander on use, capability, and limitations of data processing systems; may serve as an instructor in a service school; may serve in research, development, test, and evaluation activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in administrative office management, 3 in business communications, 3 in recordkeeping, 3 in computer and data processing concepts, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, 3 for field experience in management, 3 in education electives (instruction and counseling) and additional credit in leadership and supervision on the basis of institutional evaluation; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (5/78).

MOS-311A-001

CID SPECIAL AGENT
311A0

Exhibit Dates: 1/90–10/94.

Career Pattern

May have progressed to CID Special Agent from MOS 95D (CID Special Agent).

Description

Conducts investigations and supervises technical and other personnel in the investigation of known or suspected crimes involving government property and individuals subject to military jurisdiction; examines scene of incident and collects and submits all relevant physical evidence (fingerprints, blood stains, suspected narcotics, castings, documents) to crime laboratory; studies and evaluates evidence to determine motives and responsible individuals; develops investigative plans; prepares reports of investigations; apprehends violators or suspects based on probable cause; testifies at courts-martial or other appropriate judiciary tribunals; engages in crime prevention efforts and physical security surveys; performs worldwide protective services for Department of Defense executives, visiting foreign officials, and other designated principals; applies techniques for effective investigation of any type of crime involving US government property and individuals subject to the Uniform Code of Military Justice; knows what constitutes an offense under applicable criminal codes and laws; applies techniques governing search and apprehension; applies rules of evidence and methods of collecting, preserving, and protecting evidence; applies complete procedures for identifying, protecting, and searching a crime scene; applies techniques of surveillance, covert operation, raids, and search and seizure and conducts such activities; applies evidence, records, and laboratory reports to criminal investigations; applies techniques of crime prevention, physical security, and industrial defense surveys; evaluates findings and develops recommendations resulting from such surveys; interviews and interrogates complainants, witnesses, informants, suspects, and other persons considered knowledgeable of or connected with crimes; develops information on suspects concerning habits, associates, aliases, characteristics, and other personal information and uses such information in the investigative process; prepares proper records of information obtained through interviews and interrogations; supervises criminal investigation teams; applies basic techniques for conducting laboratory examinations and the analysis of physical evidence; evaluates all information obtained in connection with a specific crime; performs administrative procedures and office management; writes reports and correspondence; testifies as expert witness on any standard technique or procedure used in criminal investigation; coordinates with appropriate civil and military agencies involving jurisdictional authority, exchange of information, and similar problems and considerations; may be an operations officer giving direction to other personnel involved in various investigations; may serve as an instructor or supervise instruction of personnel in various crime-related topics; may have foreign language proficiency; has extensive knowledge about narcotics and narcotics trafficking, including clandestine laboratories, drug traffic patterns, drug identification, and drug field testing; conducts drug abuse education programs.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in laws/rules of evidence, 4 in introduction to law enforcement, 3 in criminal law, 3 in criminal investigation, 3 in report writing, and 3 in oral communication, and additional credit in a foreign language on the basis of institutional evaluation. In the upper-division baccalaureate category, 6 semester hours for field experience in criminology (crime scene and laboratory) and 3 for a practicum in education, and additional credit in foreign language and education on the basis of institutional evaluation (11/77).

MOS-311A-002

CID Special Agent
311A0

Exhibit Dates: 11/94–Present.

Career Pattern

May have progressed to CID Special Agent from MOS 95D (CID Special Agent).

Description

Conducts investigations and supervises technical and other personnel in the investigation of known or suspected crimes involving government property and individuals subject to military jurisdiction; examines scene of incident and collects and submits all relevant physical evidence (fingerprints, blood stains, suspected narcotics, castings, documents) to crime laboratory; studies and evaluates evidence to determine motives and responsible individuals; develops investigative plans; prepares reports of investigations; apprehends violators or suspects based on probable cause; testifies at court-martial or other appropriate judiciary tribunals; engages in crime prevention efforts and physical security surveys; performs worldwide protective services for Department of Defense executives, visiting foreign officials, and other designated principals; applies techniques for effective investigation of any type of crime involving US government property and individuals subject to the Uniform Code of Military Justice; knows what constitutes an offense under applicable criminal codes and laws; applies techniques governing search and apprehension; applies rules of evidence and methods of collecting, preserving, and protecting evidence; applies complete procedures for identifying, protecting, and searching a crime scene; applies techniques of surveillance, covert operation, raids, and search and seizure and conducts such activities; applies evidence, records, and laboratory reports to criminal investigations; applies techniques of crime prevention, physical security, and industrial defense surveys; evaluates findings and develops recommendations resulting from such surveys; interviews and interrogates complainants, witnesses, informants, suspects, and other persons considered knowledgeable of or connected with crimes; develops information on suspects concerning habits, associates, aliases, characteristics, and other personnel information and uses such information in the investigative process; prepares proper records of information obtained through interviews and interrogations; supervises criminal investigation teams; applies basic techniques for conducting laboratory examinations and the analysis of physical evidence; evaluates all information obtained in connection with a specific crime; knows administrative procedures, report writing, correspondence for-

mat, supply channels, and office management; testifies as expert witness concerning application of any standard technique or procedure used in criminal investigation; coordinates with appropriate civil and military agencies involving jurisdictional authority, exchange of information, and similar problems and considerations; may be an operations officer giving direction to other personnel involved in various investigations; may serve as an instructor or supervise instruction of personnel in various crime-related topics; may have foreign language proficiency; has extensive knowledge about narcotics and narcotics trafficking, including clandestine laboratories, drug traffic patterns, drug identification, and drug field testing; conducts drug abuse education programs.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in laws/rules of evidence, 3 in introduction to law enforcement, 3 in criminal law, 3 in criminal investigation, 3 in report writing, and 3 in oral communication, and additional credit in a foreign language on the basis of institutional evaluation. In the upper-division baccalaureate category, 6 semester hours for field experience in criminalistics (crime scene and laboratory) (11/94).

MOS-350B-001

ALL SOURCE INTELLIGENCE TECHNICIAN
(Order of Battle Technician)
350B0

Exhibit Dates: 1/90–8/91.

Career Pattern

May have progressed to MOS 350B from MOS 96B (Intelligence Analyst).

Description

Collects and evaluates tactical and strategic information related to organization, operations, capabilities, and limitations of armed forces; uses the accumulated information to develop order-of-battle data; makes reliability assessments of information through comparison with previously evaluated information; maintains close liaison with other intelligence activities, including counterintelligence, photo interpretation, interrogation, and language interpretation units; develops and maintains maps and overlays to provide complete and accurate intelligence information relating to friendly and enemy armed forces; interprets maps; prepares written reports; gives briefings and oral reports; maintains current information concerning both friendly and enemy forces, including identification, disposition, personalities, combat efficiency, and history; evaluates the significance of armed forces vulnerability studies for use in predicting probable courses of actions; has a working knowledge of automatic data processing procedures as applied to tactical and strategic intelligence; supervises, commands, or acts as chief of a section, detachment, or team engaged in the development of the data or information required in this area; may serve as a service school instructor.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in clerical practices, 3 in records administration, 3 in technical writing, 3 in oral communication, 3 in personnel supervision, and 1 in map reading. In the upper-division baccalaureate category, 3 semes-

ter hours in management problems; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management; if duty assignment was service school instructor, 6 semester hours for a practicum in education (11/77).

MOS-350B-002

ALL SOURCE INTELLIGENCE TECHNICIAN
350B0

Exhibit Dates: 9/91–Present.

Career Pattern

May progress to All Source Intelligence Technician from MOS 96B (Intelligence Analyst).

Description

Collects and evaluates tactical and strategic information related to organization, operations, capabilities, and limitations of armed forces; uses the accumulated information to develop order-of-battle data; makes reliability assessments of information through comparison with previously evaluated information; maintains close liaison with other intelligence, photo interpretation, interrogation, and language interpretation units; develops and maintains maps and overlays to provide complete and accurate intelligence information relating to friendly and enemy armed forces; interprets maps; prepares written reports; gives briefings and oral reports; maintains current information concerning both friendly and enemy forces, including identification, disposition, personalities, combat efficiency, and history; evaluates the significance of armed forces vulnerability studies for use in predicting probable courses of action; has a working knowledge of automatic data processing procedures as applied to tactical and strategic intelligence; performs basic computer functions; writes technical reports; supervises, commands, or acts as chief of a section, detachment, or team engaged in the development of the data or information required in this area.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in social sciences, 3 in technical report writing, 3 in oral communication, 3 in office management, and 3 in computer literacy. In the upper-division baccalaureate category, 3 semester hours in regional geography, 3 in applied psychology, 3 in organizational management, and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (9/91).

MOS-350D-001IMAGERY INTELLIGENCE TECHNICIAN
350D0**Exhibit Dates:** 1/90-8/91.**Career Pattern**

May have progressed to Image Interpretation Technician from MOS 96D (Imagery Analyst).

Description

Manages activities or performs duties relative to image interpretations; applies techniques and principles of image interpretation, photogrammetry, and topographic drafting; knows and applies basic principles of geology and human and physical geography; understands basic cartography, surveying, geometry, trigonometry, and the metric system; prepares written summaries and gives oral reports; conducts briefings; establishes and maintains files; instructs subordinates in proper work techniques and procedures; directs training; supervises personnel; advises superiors; develops map overlays; may serve as a service school instructor.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 in physical geography, 3 in technical writing, 3 in technical mathematics, 2 in mechanical drawing, and 3 in human relations. In the upper-division baccalaureate category, 3 semester hours in management problems, 3 for field experience in management, and 3 in personnel management; if duty assignment was instructor at a formal training facility, 6 additional semester hours for a practicum in education (11/77).

MOS-350D-002IMAGERY INTELLIGENCE TECHNICIAN
350D0**Exhibit Dates:** 9/91-Present.**Career Pattern**

May have progressed to Imagery Intelligence Technician from MOS 96D, Imagery Analyst.

Description

Manages activities or performs duties relative to image interpretations; applies techniques and principles of image interpretation and photogrammetry; knows and applies basic principles of geology and human and physical geography; understands basic cartography, surveying, geometry, trigonometry, and the metric system; prepares written summaries and gives oral reports; conducts briefings; establishes and maintains files; instructs subordinates in proper work techniques and procedures; directs training; supervises personnel; advises superiors; develops map overlays; performs basic computer functions; writes technical reports.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in map and air photo interpretation, 3 in landform geography, 3 in technical report writing, and 3 in computer literacy. In the upper-division baccalaureate category, 3 semester hours in remote sensing, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 in organizational management, and 3 for field experience in management; if rank was CW2, add 3 semes-

ter hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (9/91).

MOS-350L-001ATTACHE TECHNICIAN
350L0**Exhibit Dates:** 1/90-Present.**Career Pattern**

May have progressed to Attache Technician from MOS 71L (Administrative Specialist).

Description

Performs general administrative and logistics functions in support of Defense Army Attache office located in an embassy of the United States of America; must know regulations, directives, and procedures necessary for managing and operating administrative and logistics support functions; secures and manages housing accommodations for personnel assigned to the embassy; knows history, political and economic institutions, social customs, and, when possible, the language of the country to which assigned; advises other attache office personnel and visitors regarding matters of protocol, military courtesies, and public affairs; supervises enlisted and civilian support specialists; manages internal activities of the defense attache office; compiles and prepares reports and communications; receives, interviews, and schedules meetings with US and foreign military and civilian visitors; supervises internal communications; maintains files and administers the record keeping process; types correspondence, messages, forms, and manuscripts; authenticates vouchers; processes and reviews requisitions; may serve as service school instructor; may perform other officer-level duties as required.

Recommendation

In the lower-division baccalaureate/associate degree category, 4 semester hours in typing, 2 in filing, 3 in office practices, 3 in business communications, 3 in records administration, 1 in business machines, 3 in human relations, 6 for field experience in office management, 6 in social science, 2 in public relations, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in management problems and 3 in real property management; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management. Add credit for the specific foreign language in accordance with the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services (11/77).

MOS-351B-001COUNTERINTELLIGENCE SPECIAL AGENT
351B0**Exhibit Dates:** 1/90-8/91.**Career Pattern**

May have progressed to Counterintelligence Technician from MOS 97B (Counterintelligence Agent).

Description

Manages activities or performs duties that provide intelligence information; investigates personnel under US Army jurisdiction to determine their suitability for assignment to sensitive duties; conducts interrogations, briefings, and debriefings; prepares intelligence and investigative reports; analyzes and interprets intelligence and counterintelligence data; works closely with civilian law enforcement officials and investigative agencies; supervises and trains subordinates; knows organization, mission, tactics, and operating methods of friendly and enemy intelligence units and personnel; applies principles and procedures involved in counterintelligence investigations; applies interrogation techniques; applies techniques for conducting effective liaison with local, state, and national investigative and other governmental agencies of friendly and occupied countries; knows operation, characteristics, and regulations governing the use of recording and monitoring equipment; applies techniques and regulations governing investigative surveillance; applies fundamentals of military and civil law including due process and the application of legal principles to counterintelligence operations; collects evidence admissible for legal action; obtains depositions; knows the culture, custom, history, social, economic, and political structures of the area of operation; conducts security investigations, surveys, and vulnerability studies of installations; applies principles for communications and signal security; processes photographic film; may be a service school instructor.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in police administration, 3 in industrial security, 3 in US government, 3 in applied psychology, 3 in report writing, 3 in oral communication, 3 in office management, 2 in personnel supervision, and 1 in typing. In the upper-division baccalaureate category, 3 semester hours in political ideologies, 3 in constitutional law, and 3 in public relations; if the duty assignment was service school instructor, 6 additional semester hours for a practicum in education (11/77).

MOS-351B-002COUNTERINTELLIGENCE TECHNICIAN
351B0**Exhibit Dates:** 9/91-Present.**Career Pattern**

May progress to Counterintelligence Technician from MOS 97B (Counterintelligence Agent).

Description

Manages activities or performs duties that provide intelligence information; investigates personnel under Army jurisdiction to determine their suitability for assignment to sensitive duties; conducts interrogations, briefings, and debriefings; prepares intelligence and investiga-

tive reports; analyzes and interprets intelligence and counterintelligence data; works closely with civilian law enforcement officials and investigative agencies; supervises and trains subordinates; knows organization, mission, tactics, and operating methods of friendly and enemy intelligence units and personnel; applies principles and procedures involved in counterintelligence investigations; applies interrogation techniques; applies techniques for conducting effective liaison with local, state, and national investigative and other governmental agencies of friendly and occupied countries; knows operation, characteristics, and regulations governing the use of recording and monitoring equipment; applies techniques and regulations governing investigative surveillance; applies fundamentals of military and civil law including due process and application of legal principles to counterintelligence operations; collects evidence admissible for legal action; obtains depositions; knows the culture, custom, history, social, economic, and political structures of the area of operation; conducts security investigations, surveys, and vulnerability studies of installations; applies principles of communications and signal security; processes photographic film; performs basic computer functions; writes technical reports.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in police administration, 3 in industrial security, 3 in US government, 3 in technical report writing, 3 in oral communication, 3 in office management, and 3 in computer literacy. In the upper-division baccalaureate category, 3 semester hours in political ideologies, 3 in constitutional law, 3 in public relations, 3 in applied psychology, 3 in organizational management, and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (9/91).

MOS-351C-001

AREA INTELLIGENCE TECHNICIAN
351C0

Exhibit Dates: 1/90–Present.

Career Pattern

This MOS was formerly designated 972A.

Description

Collects intelligence information on a specific geographic area through the use of human resources; works with a minimum of supervision; uses extremely demanding operational security procedures in a foreign environment; knows culture, customs, history, politics, geography, economics, and social structure of geographic area(s); applies procedures for preparing and forwarding reports; conducts interviews, interrogations, briefings, and debriefings; prepares informational and operational reports; analyzes and interprets informa-

tion for intelligence implications; reads maps and prepares map overlays; supervises area intelligence units and teams. **NOTE:** Many of the required duties for this MOS involve highly classified materials, equipment, techniques, and activities; therefore, not all the competencies and knowledge associated with the MOS were evaluated.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in area studies, 3 in regional geography, 3 in applied psychology, 3 in report writing, 3 in speech, 3 in photography, 1 in electronic systems, 1 in typing, and 1 in human relations. In the upper-division baccalaureate category, 6 semester hours in history electives, 3 in economics electives, 3 in comparative cultures, 3 in applied research, 3 in personnel management, and 3 in international relations; if the duty assignment was service school instructor, 6 semester hours for a practicum in education. In the graduate degree category, 3 semester hours for a seminar in military intelligence strategy and policy and additional credit in international relations on the basis of institutional evaluation. Add credit for the specific foreign language in accordance with the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services (11/77).

MOS-351E-001

INTERROGATION TECHNICIAN
351E0

Exhibit Dates: 1/90–8/91.

Career Pattern

May have progressed to Interrogation Technician from MOS 97E (Interrogator).

Description

Knows history, culture, geography, and current politics and economics of country or countries in area to which assigned; knows techniques and principles of interrogation and document exploitation; knows interrogation reporting procedures; conducts interrogations of informants, prisoners of war, and refugees in a foreign language; prepares reports of interrogations and identifies and resolves conflicting information provided by different sources; disseminates reports and makes assessments of the validity of information for dissemination to users; summarizes findings; functions as a supervisor, chief, or commander of a team or larger unit; translates technical publications related to recent scientific discoveries and inventions; usually is proficient in reading, writing, speaking, and translating two or more foreign languages.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in report writing, 3 in oral communication, 3 in personnel supervision, and additional credit in area studies on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, and additional credit in area studies on the basis of institutional evaluation. Add credit for the specific foreign language in accordance with the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services (11/77).

MOS-351E-002

INTERROGATION TECHNICIAN
351E0

Exhibit Dates: 9/91–Present

Career Pattern

May progress to Interrogation Technician from MOS 97E (Interrogator).

Description

Knows history, culture, geography, and current politics and economics of country or countries in area to which assigned; applies techniques and principles of interrogation and document exploitation; applies interrogation reporting procedures; conducts interrogations of informants, prisoners of war, and refugees in a foreign language; prepares reports of interrogations and identifies and resolves conflicting information provided by different sources; disseminates reports and makes assessments of the validity of information for dissemination to users; summarizes findings; functions as a supervisor, chief, or commander of a team or larger unit; translates technical publications related to recent scientific discoveries and inventions; usually is proficient in reading, writing, speaking, and translating foreign language; performs basic computer functions; writes technical reports.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in social science, 3 in technical report writing, 3 in oral communication, and 3 in computer literacy. In the upper-division baccalaureate category, 3 semester hours in applied psychology, 3 in regional geography, 3 in organizational management, and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management. Add credit for the specific foreign language in accordance with the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services (9/91).

MOS-352C-001

TRAFFIC ANALYSIS TECHNICIAN
352C0

Exhibit Dates: 1/90–8/91.

Career Pattern

May have progressed to Traffic Analysis Technician from MOS 98C (Electronic Warfare/Signal Intelligence Analyst).

Description

Manages personnel and technical equipment engaged in intercepting, decoding, and analyzing communication traffic for content of possible intelligence value; establishes priorities of intercept missions for acquisition of desired traffic; plans, organizes, and coordinates activities; reviews data obtained in the traffic intercept process for accuracy and relevance;

prepares and transmits information reports; advises commanders and staff officers on matters concerning traffic analysis and use of the data.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 for management electives; if rank was CW2, 2 semester hours for field experience in management; if rank was CW3, 4 semester hours for field experience in management; if rank was CW4, 6 semester hours for field experience in management (8/78).

MOS-352C-002

TRAFFIC ANALYSIS TECHNICIAN
352C0

Exhibit Dates: 9/91–Present.

Career Pattern

May progress to Traffic Analysis Technician from MOS 98C (Signals Intelligence Analyst).

Description

Manages personnel and technical equipment engaged in inputting, decoding, and analyzing communication and electronics traffic for content of possible intelligence value; establishes priorities of intercept missions for acquisition of desired traffic; plans, organizes, and coordinates activities; reviews data obtained in the traffic intercept process for accuracy and relevance; prepares and transmits information reports; advises commanders and staff officers on matters concerning traffic analysis and use of the data; performs basic computer functions; if rank was CW2, also plans, organizes, and supervises teams, section and/or platoons, or other traffic analysis organization; as service school instructor develops, conducts, or supervises the instruction of student personnel and analytical procedures and techniques; assists research and development elements to develop collection, processing, location, identification, and analytical equipment; fuses all source information into all-source intelligence; if rank was CW4, may perform as the senior staff officer at national and headquarters level.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy. In the upper-division baccalaureate category, 3 semester hours in computer software design, 3 in organizational management, and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (9/91).

MOS-352D-001

EMITTER LOCATION/IDENTIFICATION TECHNICIAN
352D0

Exhibit Dates: 1/90–2/92.

Career Pattern

May have progressed to Emitter Location/Identification Technician from MOS 05D (Electronic Warfare/Signal Intelligence Emitter Identifier/Locator).

Description

Manages personnel and technical equipment assets engaged in establishment and employment of Emitter Location/Identification System (ELI) activities in a communications-electronic intelligence environment; supervises maintenance, calibration, adjustment, and testing of equipment; operates or supervises operation of radio (CW, voice, teletype), and cryptographic equipment; ensures that personnel follow established direction-finding communications nets; advises commanders or staff officers on the employment, deployment, and utilization of ELI assets; analyzes collected information and converts to usable intelligence for use of commanders.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic mathematics and 3 in personnel supervision; if served as platoon leader, 3 semester hours in principles of administration. In the upper-division baccalaureate category, 3 semester hours in personnel management and training, 3 in management problems, and 3 for management electives; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 semester hours for field experience in management; if rank was CW4, 6 semester hours for field experience in management (8/78).

MOS-352D-002

EMITTER LOCATION/IDENTIFICATION TECHNICIAN
352D0

Exhibit Dates: 3/92–Present.

Career Pattern

May have progressed to Emitter Location/Identification Technician from MOS 98D (Emitter Identifier/Locator).

Description

Manages personnel and technical equipment assets engaged in establishment and employment of Emitter Location/Identification System (ELI) activities in a communications-electronic intelligence environment; supervises maintenance, calibration, adjustment, and testing of equipment; operates or supervises operation of radio (CW, voice, teletype), and cryptographic equipment; ensures that personnel follow established direction-finding communications nets; advises commanders or staff officers on the employment, deployment, and utilization of ELI assets; analyzes collected information and converts to usable intelligence for use of commanders.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours

for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (3/92).

MOS-352G-001

VOICE INTERCEPT TECHNICIAN
352G0

Exhibit Dates: 1/90–8/91.

Career Pattern

May have progressed to Voice Intercept Technician from MOS 98G (Electronic Warfare/Signal Intelligence Voice Interceptor).

Description

Manages and plans personnel and equipment engaged in the intercept and analysis of voice communications; supervises installation of and provides operational direction to voice intercept and electronic warfare activities; supervises the calibration, adjustment, and testing of voice intercept and standard communications equipment; applies knowledge of wave propagation antenna and electronic theory to ensure proper antenna emplacement and orientation; reads, writes, comprehends, transcribes, and translates at least one foreign language; supervises intercept, transcription, and translation of voice communications in a foreign language; advises commanders and staff officers on the employment and utilization of voice intercept and electronic equipment and personnel; conducts training programs for voice intercept and electronic countermeasures personnel; advises the commander on language problem areas.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision; if served as platoon leader, 3 semester hours in principles of administration. In the upper-division baccalaureate category, 6 semester hours for humanities or social science electives, 3 in personnel management and training, 3 in management problems, and 3 for management electives; if rank was CW2, 2 semester hours for field experience in management; if rank was CW3, 4 semester hours for field experience in management; if rank was CW4, 6 semester hours for field experience in management. Add credit for the specific foreign language(s) by referring to the recommendation in the DoD volume of the Guide to the Evaluation of Educational Experiences in the Armed Services and modifying the recommendation on the basis of institutional evaluation (8/77).

MOS-352G-002

VOICE INTERCEPT TECHNICIAN
352G0

Exhibit Dates: 9/91–Present.

Career Pattern

May have progressed to Voice Intercept Technician from MOS 98G (Voice Interceptor).

Description

Manages and plans personnel and equipment engaged in the intercept and analysis of voice communications; supervises installation of and provides operational direction to voice intercept

and electronic warfare activities; supervises operators in established techniques and procedures; performs basic computer functions; reads, writes, comprehends, transcribes, and translates at least one foreign language; supervises intercept, transcription, and translation of voice communications in a foreign language; advises commanders and staff officers on the employment and utilization of voice intercept and electronic equipment and personnel; conducts training programs for voice intercept and electronic countermeasures personnel; advises the commander on language problem areas.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy. In the upper-division baccalaureate category, 3 semester hours in regional geography, 3 in geopolitics, 3 in management problems, 3 in organizational management, and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (9/91).

MOS-352H-001

MORSE INTERCEPT TECHNICIAN
352H0

Exhibit Dates: 1/90–8/91.

Career Pattern

May have progressed to Morse Intercept Technician from MOS 05H (Electronic Warfare/Signal Intelligence Morse Interceptor).

Description

Manages personnel and technical equipment in establishment and employment of Morse intercept and electronic warfare activities; plans, coordinates, and supervises personnel engaged in these operations; may supervise several hundred persons; establishes work schedules and priorities; evaluates performance of subordinates; supervises calibration, adjustment, and testing of Morse intercept equipment; conducts training programs for equipment operators; applies antenna theory and wave propagation characteristics; supervises message analysis; supervises cryptanalysis principles and procedures.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision; if served as platoon leader, 3 semester hours in principles of administration. In the upper-division baccalaureate category, 3 semester hours in personnel management and training, 3 in management problems, and 3 for management electives; if rank was CW2, 2 semester hours for field experience in management; if rank was CW3, 4 semester hours for field experience in management; if rank was CW4, 6 semester hours for field experience in management (8/78).

MOS-352H-002

MORSE INTERCEPT TECHNICIAN
352H0

Exhibit Dates: 9/91–Present

Career Pattern

May have progressed to Morse Intercept Technician from MOS 98H (Morse Interceptor).

Description

Manages personnel and technical equipment in establishment and employment of Morse intercept and electronic warfare activities; plans, coordinates, and supervises personnel engaged in these operations; may supervise several hundred persons; establishes work schedules and priorities; evaluates performance of subordinates; supervises calibration, adjustment, and testing of Morse intercept equipment; conducts training programs for equipment operators; applies antenna theory and wave propagation characteristics; supervises message analysis; supervises cryptanalysis principles and procedures; performs basic computer functions; writes technical reports.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in social sciences, 3 in technical report writing, 3 in oral communication, 3 in office management, and 3 in computer literacy. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (9/91).

MOS-352J-001

EMANATIONS ANALYSIS TECHNICIAN
352J0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to Emanations Analysis Technician from MOS 98J (Electronic Warfare/Signal Intelligence Noncommunications Interceptor).

Description

Manages personnel and technical equipment assets engaged in intercept and analysis of noncommunications electromagnetic emissions; plans, organizes, and supervises establishment and operation of facilities and units engaged in electronic intelligence activities; selects sites for tactical noncommunications intercept/analysis equipment; ensures that electronic intelligence operators and analysts follow established techniques and analytical procedures in the intercept and interpretation of electromagnetic signals; advises operators and analysts; conducts training programs for noncommunications intercept operators/analysts; may serve as

a service school instructor; may serve as platoon leader.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision; if served as platoon leader, 3 semester hours in principles of administration. In the upper-division baccalaureate category, 3 semester hours in personnel management and training, 3 in management problems, and 3 in a management elective; if rank was CW2, 2 semester hours for field experience in management; if rank was CW3, 4 semester hours for field experience in management; if rank was CW4, 6 semester hours for field experience in management (9/88).

MOS-352K-001

NON-MORSE INTERCEPT TECHNICIAN
352K0

Exhibit Dates: 1/90–8/91.

Career Pattern

May have progressed to Non-Morse Intercept Technician from MOS 05K (Electronic Warfare/Signal Intelligence Non-Morse Interceptor).

Description

Manages personnel and technical equipment in establishment and employment of non-Morse intercept and electronic warfare activities; plans, coordinates, and supervises personnel engaged in these operations; may supervise several hundred persons; establishes work schedules and priorities; evaluates performance of subordinates; supervises calibration, adjustment, and testing of various electronic intercept equipment including radios and printers; conducts training programs for equipment operators; applies antenna theory and wave propagation characteristics; supervises message analysis; supervises cryptanalysis procedures.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision; if served as platoon leader, 3 semester hours in principles of administration. In the upper-division baccalaureate category, 3 semester hours in personnel management and training, 3 in management problems, and 3 for management electives; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 semester hours for field experience in management (8/78).

MOS-352K-002

NON-MORSE INTERCEPT TECHNICIAN
352K0

Exhibit Dates: 9/91–Present.

Career Pattern

May progress to Non-Morse Intercept Technician from MOS 98K (Non-Morse Interceptor Analyst).

Description

Manages personnel and technical equipment in establishment and employment of non-Morse intercept and electronic warfare activities; plans, coordinates, and supervises personnel engaged in these operations; may supervise several hundred persons; establishes work schedules and priorities; evaluates performance of

subordinates; supervises calibration, adjustment, and testing of various electronic intercept equipment including radios and printers; conducts training programs for equipment operators; performs basic computer functions; writes technical reports; applies antenna theory and wave propagation characteristics; supervises message analysis; supervises cryptanalysis procedures.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy and 3 in technical report writing. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (9/91).

MOS-353A-001

INTELLIGENCE AND ELECTRONIC WARFARE (IEW)
EQUIPMENT TECHNICIAN
353A0

Exhibit Dates: 1/90-8/91.

Career Pattern

May have progressed to Intelligence and Electronic Warfare Equipment Technician from any of the following MOS's: 33M, 33P, 33Q, 33R, 33T, and 33V.

Description

Manages personnel and equipment involved in installing, maintaining, repairing, and modifying complex electronic warfare, intercept, and related ancillary electronic equipment; applies theory and knowledge of vacuum tubes, transistors, and other solid state devices and digital techniques; applies techniques of circuit analysis and performance measurement; keeps maintenance records; supervises requisitioning of supplies and spare parts; recommends equipment modifications; instructs repair personnel on troubleshooting and repair and on specialized tests and procedures; estimates repair requirements and costs; prepares and implements maintenance schedules; advises commander on use of electronic systems equipment; may serve as a service school instructor.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in administrative office management, 3 in business communication, 3 in record keeping, 3 in computer and data processing concepts, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, 3 for field experience in management, 3 in education electives (instruction and counseling), and additional credit in leadership and supervision on the basis of institutional evaluation; if rank was CW2, 2 additional semester

hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (5/78).

MOS-353A-002

INTELLIGENCE AND ELECTRONIC WARFARE
EQUIPMENT TECHNICIAN
353A0

Exhibit Dates: 9/91-Present.

Career Pattern

May have progressed to Intelligence and Electronic Warfare Equipment Technician from any of the following MOS's: 33M (EW/Intercept Strategic Systems Analyst and Command and Control Subsystems Repairer), 33P (EW/Intercept Strategic Receiving Subsystems Repairer), 33Q (EW/Intercept Strategic Processing and Storage Subsystems Repairer), 33R (EW/Intercept Aviation Systems Repairer), 33T (EW/Intercept Tactical Systems Repairer), or 33V (EW/Intercept Aerial Sensor Repairer).

Description

Manages personnel and equipment involved in installing, maintaining, repairing, and modifying complex electronic warfare, intercept, and related ancillary electronic equipment; applies theory and knowledge of vacuum tubes, transistors, and other solid state devices and digital techniques; applies techniques of circuit analysis and performance measurement; keeps maintenance records; supervises requisitioning of supplies and spare parts; recommends equipment modifications; instructs repair personnel on troubleshooting and repair and on specialized tests and procedures; estimates repair requirements and costs; prepares and implements maintenance schedules; advises commander on use of electronic systems equipment; performs basic computer and records management functions; writes technical reports; may serve as a service school instructor.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy, 3 in technical report writing, and 3 in records management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (9/91).

MOS-420A-001

MILITARY PERSONNEL TECHNICIAN
420A0

Exhibit Dates: 1/90-3/94.

Career Pattern

May have progressed from any enlisted MOS in Career Management Field 71.

Description

Supervises administrative activities related to personnel management, including office organization and operation, counseling of personnel, and personnel records; develops input for and interprets output from automated systems supporting the personnel function; oversees the selection and use of office equipment, including typewriters, calculators, and word processing equipment; supervises military and civilian personnel engaged in specialized administrative and personnel management duties; assists in hiring and evaluating civilian employees; participates in personnel selection, duty assignment, evaluation, and training to ensure full utilization of personnel; counsels personnel from a wide variety of backgrounds, assisting them with career and personal decisions; refers individuals with problems to the chaplain, Judge Advocate General, medical personnel, or appropriate agency, if necessary; initiates and prepares correspondence, messages, and reports; interprets regulations; makes decisions based on a variety of information sources and requirements; processes changes to manpower documents.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in administrative office management, 3 in business communication, 3 in records management, 3 in introduction to computer concepts, 3 in personnel supervision, and 6 for field experience in management. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 in counseling; if rank was CW2, 3 additional semester hours for field experience in personnel management and counseling; if rank was CW3, 6 additional semester hours for field experience in personnel management and counseling; if rank was CW4, 9 additional semester hours for field experience in personnel management and counseling; if duty assignment was platoon leader, additional credit in leadership and supervision on the basis of institutional evaluation. In the graduate degree category, credit for an internship in personnel management and counseling on the basis of institutional evaluation (10/77).

MOS-420A-002

MILITARY PERSONNEL TECHNICIAN
420A0

Exhibit Dates: 4/94-Present.

Career Pattern

May have progressed from any enlisted MOS in Career Management Field 71.

Description

Supervises administrative activities related to personnel management, including office organization and operation, counseling of personnel, and personnel records; develops input for and interprets output from automated systems supporting the personnel function; oversees the selection and use of office equipment, including typewriters, calculators, and word processing equipment; supervises military and civilian personnel engaged in specialized administrative and personnel management duties; assists in hiring and evaluating civilian employees; participates in personnel selection, duty assignment, evaluation, and training to ensure full utilization of personnel; counsels personnel from a wide variety of backgrounds, assisting them with career and personal deci-

sions, refers individuals with problems to the chaplain, Judge Advocate General, medical personnel, or appropriate agency, if necessary, initiates and prepares correspondence, messages, and reports, interprets regulations, makes decisions based on a variety of information sources and requirements, processes changes to manpower documents.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in office administration, and 6 for field experience in personnel management. In the upper-division baccalaureate category, 3 semester hours in human resource management and 3 in counseling (4/94).

MOS-420C-001

BANDMASTER
420C0

Exhibit Dates: 1/90–1/93.

Career Pattern

Normally progresses to Bandmaster from an Army enlisted bandsman (currently any MOS in Career Management Field 97, Band, which includes MOS 02B through MOS 02Z), completing from one to three preparatory programs of instruction.

Description

Possesses skill and understanding in applied music ensemble playing, basic music theory, planning concerts, conducting, etc.; acquires basic understanding of the techniques of all wind and percussion instruments; has extensive and practical experience in arranging music for bands and jazz ensembles and, in some cases, choral groups; conducts band literature equivalent to that included in upper-division and graduate courses; acquires a thorough grasp of military marching evolutions, commands, and procedures; is responsible for band administration and the supervision of the musical development of band units; directs personnel, administration, supply (uniforms, instruments, and publications), and repair and maintenance activities of band units; has fiscal control of band units; routinely serves as a company commander; may serve as an instructor in the Army element of the School of Music.

Recommendation

In the lower-division baccalaureate/associate degree category, 16 semester hours in music theory (includes harmony, sight singing, ear training, and keyboard), 8 in applied music, 4 in performing ensemble, 3 in woodwind, brass, and percussion techniques, 3 in personnel supervision, and additional credit in applied music on the basis of institutional evaluation. In the upper-division baccalaureate category, 6 semester hours in arranging, 4 in performing ensemble, 6 in conducting, 2 in marching band techniques, 3 for field experience in management, and additional credit in introduction to management on the basis of institutional evaluation. If the duty assignment was an instructor in the army element of the School of Music, credit in teaching methods in music, education materials, evaluation and testing in education, and for a practicum in education on the basis of institutional evaluation; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester

hours for field experience in management. In the graduate degree category, 3 semester hours in conducting, 3 in band administration, 2 in performing ensemble, and additional credit in educational administration on the basis of institutional evaluation (4/77).

MOS-420C-002

BANDMASTER
420C0

Exhibit Dates: 2/93–Present.

Career Pattern

Normally progresses to Bandmaster from an Army enlisted bandsman (any MOS in Career Management Field 97, Band, which includes MOS 02B through MOS 02Z), completing from one to three preparatory programs of instruction.

Description

Possesses skill and understanding in applied music, ensemble playing, basic music theory, planning concerts, and conducting; acquires basic understanding of techniques of all wind and percussion instruments; has extensive and practical experience in arranging music for bands and jazz ensembles and, in some cases, choral groups; conducts band literature equivalent to that included in upper-division and graduate courses; acquires a thorough grasp of military marching evolutions, commands, and procedures; is responsible for band administration and the supervision of the musical development of band units; directs personnel, administration, supply (uniforms, instruments, and publications), and repair and maintenance activities of band units; has fiscal control of band units; serves routinely as company commander; may serve as an instructor in the Army element of the School of Music.

Recommendation

In the lower-division baccalaureate/associate degree category, 16 semester hours in music theory (harmony, ear training, and sight singing), 2 in jazz theory/improvisation, 8 in applied music, 6-8 in performing ensembles, 3 in woodwind, brass, and percussion techniques, and 3 in personnel supervision. In the upper-division baccalaureate category, 6 semester hours in arranging, 6 in rehearsal techniques of conducting, 6 in organizational management, 3 in logistics management, and 3 in music business management (2/93).

MOS-420D-001

CLUB MANAGER
420D0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to warrant officer Club Manager from enlisted MOS 00J (Club Manager).

Description

Manages the operation of Army or joint service clubs, club systems, hotels, or similar activities involving up to several thousand members; supervises all business operations of the activities, including financial operations, beverage and food services, membership activities, and social and recreational activities; knows regulations and policies governing financial management and accountability for property and funds, including in-depth knowledge of internal controls, budgeting, credit card oper-

ations, and financial statements and reports; applies fundamentals of business law and contractual relationships; applies military and civilian protocol and social customs; monitors operations to ensure control of costs, waste, pilferage, inventory rotation, and accountability; has knowledge of appropriate laws, codes, and regulations; supervises purchase, storage, preparation, and service of food and beverages; monitors club operations to ensure control of costs, inventory, accountability, and receipts; completes required reports; supervises catering of social functions, parties, and special events; selects and recommends contracting for entertainment groups; enforces safety requirements, club rules of conduct, and dress codes; supervises, directs, and trains subordinates and civilian employees.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in report writing, 3 in communication skills (oral), 3 in food and beverage management, 3 in food and labor cost control systems, 3 in personnel supervision, and 3 in office practices. In the upper-division baccalaureate category, 3 semester hours in hotel, motel, or club management and 3 in personnel management and training; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (11/77).

MOS-550A-001

LEGAL ADMINISTRATOR
550A0

Exhibit Dates: 1/90–12/90.

Career Pattern

May have progressed to Legal Administrator from MOS 71D (Legal Specialist) or MOS 71E (Court Reporter).

Description

Performs the duties of a paralegal, as well the duties of a legal administrator; manages the office of the Staff Judge Advocate or of the headquarters exercising general court-martial jurisdiction; analyses legal and administrative documents, claims, and records of court-martial and nonjudicial punishment; drafts documents dealing with civil matters, including wills, bills of sale, and separation and support agreements; interprets civil statutes and Army regulations governing the administration of military justice, contracts, and the procurement program; provides technical supervision to unit legal personnel and office staff; issues orders appointing members of courts, boards, and committees; receives, processes, and authenticates official technical correspondence and makes referrals to attorneys or to other agencies when required; maintains law and administrative libraries; researches cases and other references to support legal, administrative, or military decisions; maintains statistical information; participates in manpower surveys; acts as office security manager; supervises military and civilian personnel; is directly responsible for office financial and budgetary matters; if qualified as court reporter, records legal proceedings by dictation for later transcription.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision, 3 in principles of financial budgeting, 3 in legal terminology, 3 in law office management, 3 in trial preparation and procedures, 3 in legal research, 3 in paralegalism (duties and responsibilities of the legal assistant, code of ethics, principles of conduct, relationship to the attorney, etc.); if qualified as a court reporter, 8 additional semester hours in machine shorthand, 6 in typewriting, 3 in machine transcription, 3 in introduction to court reporting, and 3 in business communication. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management electives, and 3 in legal environment and processes; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (10/77).

MOS-550A-002

LEGAL ADMINISTRATOR
550A0

Exhibit Dates: 1/91–Present.

Career Pattern

May have progressed to Legal Administrator from MOS 71D (Legal Specialist) or MOS 71E (Court Reporter).

Description

Performs the duties of a paralegal, as well as the duties of a legal administrator; manages the office of the Staff Judge Advocate or of the headquarters exercising general court-martial jurisdiction; analyses legal and administrative documents, claims, and records of court-martial and nonjudicial punishment; drafts documents dealing with civil matters, including wills, bills of sale, and separation and support agreements; interprets civil statutes and Army regulations governing the administration of military justice, contracts, and the procurement program; provides technical supervision to unit legal personnel and office staff; issues orders appointing members of court, boards, and committees; receives, processes, and authenticates official technical correspondence and makes referrals to attorneys or to other agencies when required; maintains law and administrative libraries; implements Law Library Services Policies, Procedures, and Systems; researches cases and other references to support legal, administrative, or military decisions; maintains statistical information; participates in manpower surveys; acts as office security manager; supervises military and civilian personnel; is directly responsible for office financial and budgetary matters; if qualified as court reporter, records legal proceedings by dictation for later transcription; analyzes legal operations to determine where automated systems will enhance legal services; reviews internal automated legal research utilization reports; directs training of personnel in operation of computers, peripherals, and off-line equipment.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to law, 3 in legal ethics, interviewing, and investigations, 3 in microcomputer applications, 3 in personnel supervision, 3 in law office

systems, 3 in litigation, and 3 in public administration. In the upper-division baccalaureate category, 3 semester hours in law office management, 3 in computer-assisted legal research, 3 in computerized litigation, 3 in personnel management, 3 in organizational management, and 3 for field experience in management (4/91).

MOS-600A-001

PHYSICIAN ASSISTANT
600A0

Exhibit Dates: 1/90–5/92.

Career Pattern

May have progressed to Physician Assistant from any of the following MOS's: 91B, 91C, 91D, 91F, 91G, 91H, 91J, 91L, 91N, 91P, 91Q, 91S, 91U, 91V, 91W, 91Y, 92B, or 92E; has from three to ten years of clinical experience prior to appointment as a Physician Assistant.

Description

Working under the guidance and supervision of a physician, provides general medical care for the sick and injured; makes diagnoses of diseases, disorders, and injuries; performs preventive, diagnostic, and therapeutic medical and surgical procedures; obtains and records medical data and case histories on prescribed forms; recognizes potential zoonotic and food-borne disease problems. NOTE: Appointment to Warrant Officer as a Physician Assistant is based upon satisfactory completion of the two-year Physician Assistant program of instruction at the Army's Academy of Health Sciences, Fort Sam Houston, Texas. This program consists of 52 weeks of didactic instruction and 52 weeks of clinical practicum. Didactic instruction is provided in human anatomy and physiology, clinical physiology, inorganic chemistry, biological chemistry, community health, mental health, pharmacology, clinical medicine, clinical surgery, pediatrics, pathology and laboratory practices, preventive medicine methods and practices, and medical and surgical procedures. Practicum of either four or six weeks duration are taken in the following clinics: obstetrics/gynecology, pediatric, eye, ear, nose and throat, neuro-psychiatric, dermatology, orthopedic, surgical medicine; clinical practices are also taken in preventive medicine, ambulatory care, and laboratory service.

Recommendation

In the upper-division baccalaureate category, 60 semester hours in physician assisting; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (6/77).

MOS-600A-002

PHYSICIAN ASSISTANT
600A0

Exhibit Dates: 6/92–Present.

Career Pattern

May have progressed to Physician Assistant from any of the following MOS's: 91A, 91B, 91C, 91D, 91F, 91G, 91H, 91J, 91L, 91N, 91P, 91Q, 91S, 91U, 91V, 91W, 91Y, 92B, or 92E; has from three to ten years of clinical experience prior to appointment as a Physician Assistant.

Description

Working under the guidance and supervision of a physician, provides primary and specialized care of the sick and wounded; interviews and examines patients to collect history and physical data; orders diagnostics and laboratory procedures; diagnoses, treats, and prescribes courses of treatment and medication; consults and refers patients for specialized procedures or a physician's evaluation; organizes, instructs, and supervises enlisted personnel in technical aspects of patient care; prepares reports; supervises preventive medicine programs.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 5 semester hours in primary care practice, 3 in organizational management, and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (6/92).

MOS-640A-001

VETERINARY SERVICES TECHNICIAN
640A0

Exhibit Dates: 1/90–Present.

Career Pattern

Progresses to Veterinary Services Technician from MOS 91R (Veterinary Food Inspection Specialist).

Description

Supervises, directs, and manages food inspection personnel and equipment essential for maintenance of military food hygiene and food quality assurance under the guidance of a veterinarian; supervises subordinates in the conduct of tests used in veterinary medical procedures; applies specialized technical knowledge and skill regarding nonmedical aspects of animal care and control; supervises the preparation of veterinary activity reports; coordinates food inspection operations of veterinary detachments and activities; manages and directs personnel, facilities, and equipment required for military food hygiene, safety, and quality assurance under the guidance and supervision of the Deputy Command for Veterinary Services; organizes and conducts sanitary inspections, recognizes sanitary deficiencies, and completes sanitary compliance ratings of civilian and government facilities that produce, process, prepare, manufacture, store, or otherwise handle subsistence; supervises the slaughter and processing of food animals in emergency situations; directs the sampling of subsistence for testing/detection of nuclear, biological, and chemical contamination; interfaces with Department of Defense, federal inspection authorities and other agencies/offices concerning food inspection matters; identifies microbiological, chemical, and physical deterioration

of subsistence; interprets toxicological, microbiological, chemical, and physical findings of subsistence; provides technical advice to installation subsistence supply activities; provides assistance to the veterinarian in programs to control animal disease and prevents zoonotic and foodborne illnesses; interviews patients and collects other data on foodborne disease and zoonotic disease to assist epidemiological investigations; observes, records, and reports on subsistence programs that may have public health significance; supervises preparation of reports pertaining to veterinary activities; performs emergency procedures for relief of poisoning, shock, heat/cold, or other life-threatening injuries to animals; provides assistance to the veterinarian in the administration and management of the veterinary nonappropriated fund, including accounting, inventory requirements, and ordering procedures; assists the veterinarian in developing and managing an effective stray animal program.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in food science technology, 3 in food inspection and regulation, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, 3 in education and training, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, 3 in education and training, and 7 additional semester hours for field experience in management (3/92).

MOS-670A-001

BIOMEDICAL EQUIPMENT REPAIR TECHNICIAN
670A0

Exhibit Dates: 1/90–Present.

Career Pattern

May have progressed to Biomedical Equipment Repair Technician from MOS 35U (Biomedical Equipment Specialist, Advanced).

Description

Organizes, supervises, and manages personnel and organizations responsible for installing, operating, maintaining, and repairing optical, dental, and medical diagnostic and treatment equipment; plans and develops detailed procedures for installation of instruments or equipment; develops internal operating procedures and manages allocated resources; anticipates and determines repair requirements, parts, and replacement of equipment; instructs on established maintenance techniques and operating procedures; advises on and supervises use of schematics, tube testing equipment, oscilloscopes, voltmeters, and other test equipment to isolate equipment malfunctions; inspects inoperative equipment, develops cost estimates for repair, and makes appropriate recommendations regarding repair or replacement; maintains records; distributes work load; makes final

inspections; develops plans for design and layout of medical laboratory or equipment facilities; prepares drawings, sketches, notes, and materials for installation of equipment; may serve as a service school instructor; may perform duties in support of the procurement, research, development, testing, and evaluation of medical equipment.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 3 in communication skills (oral and written), and 3 in record keeping. In the upper-division baccalaureate category, 6 semester hours in personnel management, 3 for field experience in management, 3 in management problems, 3 in introduction to management, 3 in public speaking, 3 in technical report writing, 3 in records administration, and 3 in office management. If rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (11/79).

MOS-670A-002

HEALTH SERVICES MAINTENANCE TECHNICIAN
670A0

Exhibit Dates: 6/92–Present.

Career Pattern

Progresses to Biomedical Equipment Repair Technician from MOS 35U (Biomedical Equipment Specialist, Advanced).

Description

Organizes, supervises, and manages personnel and organizations responsible for installing, operating, maintaining, and repairing optical, dental, and medical diagnostic and treatment equipment; plans and develops detailed procedures for installation of instruments or equipment; develops internal operating procedures and manages allocated resources; anticipates and determines repair requirements, parts, and replacement of equipment; instructs on established maintenance techniques and operating procedures; advises on and supervises use of schematics, digital multimeters, functional generators, oscilloscopes, and other test equipment to isolate equipment malfunctions; inspects inoperative equipment, develops cost estimates for repair, and makes appropriate recommendations regarding repair or replacement; maintains records; distributes work load; makes final inspections; develops or plans for design and layout of medical laboratory or equipment facilities; prepares drawings, sketches, notes, and materials for installation of equipment; may serve as a service school instructor; may perform duties in support of the procurement, research, development, testing, and evaluation of medical equipment.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3

additional semester hours for field experience in management, if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management, if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (6/92).

MOS-880A-001

MARINE DECK OFFICER
880A0

Exhibit Dates: 1/90–10/92.

Career Pattern

May have progressed to Marine Deck Officer from MOS 88K (Watercraft Operator).

Description

Commands Army watercraft on oceans, bays, sounds, lakes, and coastal waters; is responsible for proper operation and safety of the vessel including discipline of the crew and seaworthiness of the vessel; must know maritime law and have a working knowledge of international and inland rules of the road; is proficient in seamanship and ship handling; operates all deck machinery and equipment, including ground tackle, cargo gear, lifeboat, raft, fire fighting and lifesaving equipment, emergency steering, and damage control systems; qualified to control destination of vessel using all navigational aids including electronic equipment (radio direction finders, radar, and fathometers); conducts radio and visual communication with government and commercial vessels and shore stations, including flashing light, semaphore, and flag-hoist signalling using international procedures when required; knows cargo planning, stowage procedures, and techniques of loading and securing cargo to ensure seaworthiness; is proficient in celestial navigation; uses navigational aids, including charts, compasses, sextants, lighthouse, and light buoys both at sea and when approaching shore; holds qualifying license validated by the Marine Qualification Board of the Army for command position; if holding a masters license, must also have radar operation qualifications.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 for field experience in management, 3 in record keeping, and 3 in principles of management. In the upper-division baccalaureate category, 3 semester hours in management electives, 3 in management problems, 3 for field experience in management, and 2 in human relations; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (9/79).

MOS-880A-002

MARINE DECK OFFICER
880A0

Exhibit Dates: 11/92–Present.

Career Pattern

Progresses to Marine Deck Officer from MOS 88K (Watercraft Operator).

Description

Commands Army watercraft vessels on oceans, bays, sounds, lakes, and coastal waters; is responsible for proper operation and safety of the vessel including discipline of the crew and seaworthiness of the vessel; must know maritime law and have a working knowledge of international and inland rules of the road; is proficient in seamanship and ship handling; operates all deck machinery and equipment, including ground tackle, cargo gear, lifeboat, raft, fire fighting and lifesaving equipment, emergency steering, and damage control systems; qualified to control destination of vessel using all navigational aids, including electronic equipment (radio direction finders, radar, Loran-C, SATNAV, GPS, and fathometers); conducts radio and visual communication with government and commercial vessels and shore stations, including flashing light, semaphore, and flag-hoist signaling using international procedures when required; knows cargo planning, stowage procedures, and techniques of loading and securing cargo to ensure seaworthiness; is proficient in celestial navigation; uses navigational aids, including charts, compasses, sextants, lighthouse, and light buoys both at sea and when approaching shore; hold qualifying license for command position, validated by the Marine Qualification Board of the Army; if holding a masters license, must also have radar operation qualifications; may also serve as a nautical science instructor.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, 3 in budget management, and 7 additional semester hours for field experience in management (11/92).

MOS-881A-001

MARINE ENGINEERING OFFICER
881A0

Exhibit Dates: 1/90-10/92.

Career Pattern

May have progressed to Marine Engineering Officer from MOS 88L (Watercraft Engineer).

Description

Supervises the operation, maintenance, repair, and overhaul of marine power plants, propulsion systems, heating and ventilating systems, and other mechanical, plumbing, and electrical equipment in ships, docks, and marine port facilities; inspects ship's machinery to determine compliance with maintenance standards or to determine extent, cost, and nature of repairs required; provides instruction in the proper maintenance and repair of machinery and shipboard equipment; monitors perfor-

mance on contracts for marine repair and overhaul; supervises loading of fuel, water, and ballast; maintains and records work performed and prepares maintenance reports; when assigned as Marine Engineering Technician or Marine Inspector, inspects vessel and prepares and processes repair orders; may serve as a school instructor.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 2 for field experience in management, 3 in record keeping, and 3 in principles of management. In the upper-division baccalaureate category, 3 semester hours in management electives, 3 in management problems, and 2 for field experience in management; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (9/79).

MOS-881A-002

MARINE ENGINEERING OFFICER
881A0

Exhibit Dates: 11/92-Present.

Career Pattern

Progresses to Marine Engineering Officer from MOS 88L (Watercraft Engineer).

Description

Supervises the operation, maintenance, repair, and overhaul of marine power plants, propulsion systems, heating and ventilating systems, and other mechanical, plumbing, and electrical equipment in ships, docks, and marine port facilities; inspects ship's machinery and shipboard equipment; monitors performance of contracts for marine repair and overhaul; supervises loading of fuel, water, and ballast; maintains and records work performed and prepares maintenance reports; when assigned as Marine Engineering Technician or Marine Inspector, inspects vessels and prepares and processes repair orders; may serve as a school instructor; holds qualifying license for command position validated by the Marine Qualification Board of the Army; may serve as a marine engineering instructor.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, 3 in

budget management, and 7 additional semester hours for field experience in management (3/92).

MOS-910A-001

AMMUNITION TECHNICIAN
910A0

Exhibit Dates: 1/90-12/90.

Career Pattern

May have progressed to Ammunition Technician from MOS 55B (Ammunition Specialist), MOS 55D (Explosive Ordnance Disposal Specialist), MOS 55G (Nuclear Weapons Specialist), MOS 55R (Ammunition Stock Control and Accounting Specialist), MOS 55X (Ammunition Inspector), or MOS 55Z (Ammunition Supervisor).

Description

Manages personnel, equipment, supply, and facility assets for the receipt, storage, and issue of all classes of ammunition; plans, coordinates and supervises 50-150 persons engaged in the requisitioning, receipt, inspection, surveillance, testing, maintenance, repair, modification, storage, issue, crating, packaging, transportation, and destruction of ammunition, missiles, rockets, explosive components, and non-nuclear warheads; plans for safe and efficient employment of munition and high explosives; conducts surveillance inspections and determines serviceability of conventional ammunition; monitors handling and storage of special ammunition; applies policies and procedures for technical escort of chemical, biological, and nuclear materials and radioactive wastes; provides technical assistance regarding conventional ammunition to field activities; interprets technical publications and trains enlisted specialists; classifies, evacuates, or determines disposition of captured or damaged ammunition; supervises load testing, calibration, and use of ammunition test and handling equipment; participates in the investigation of accidents; prepares and reviews reports including investigative reports; is familiar with military and civilian tariffs and the logistics of supply and transportation; ensures compliance with safety and security regulations pertaining to ammunition and missiles; applies Occupational Safety and Health Act regulations and procedures; knows physiological effects of, protective measures against, and emergency and first aid procedures employed after exposure to toxic chemicals; knows fire fighting procedures for conventional and special ammunition; plans and conducts safety programs for personnel handling ammunition and missiles; reports on problem areas related to accidents and changes to procedures for storing and handling hazardous chemicals; establishes and maintains control over ammunition stocks and ensures accountability of munitions material; may serve as detachment commander, instructor at a formal service school, advisor to members of allied armies, or advisor to research, development, testing, and evaluation activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 8 semester hours in physical science, 5 in industrial safety, 3 in basic electronics, 3 in personnel supervision, 3 in inventory management, 3 in report writing, 2 in maintenance shop record keeping, 2 in security practices, and additional credit in basic chemistry, chemistry of explosives, basic physics,

nuclear physics, and public speaking/communication on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in personnel management and training, 3 in management electives, and 3 in logistics management, if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management; if duty assignment was platoon leader, credit in leadership and supervision on the basis of institutional evaluation (5/77).

MOS-910A-002

AMMUNITION TECHNICIAN
910A0

Exhibit Dates: 1/91–Present.

Career Pattern

May have progressed to Ammunition Technician from MOS 55B (Ammunition Specialist), MOS 55D (Explosive Ordnance Disposal Specialist), MOS 55G (Nuclear Weapons Specialist), MOS 55R (Ammunition Stock Control and Accounting Specialist), MOS 55X (Ammunition Inspector), or MOS 55Z (Ammunition Supervisor).

Description

Manages personnel, equipment, supply, and facility assets for the receipt, storage, and issue of all classes of ammunition; plans, coordinates and supervises 50-150 persons engaged in the requisitioning, receipt, inspection, surveillance, testing, maintenance, repair, modification, storage, issue, crating, packaging, transportation, and destruction of ammunition, missiles, rockets, explosive components, and non-nuclear warheads; plans for safe and efficient employment of munition and high explosives; conducts surveillance inspections and determines serviceability of conventional ammunition; monitors handling and storage of special ammunition; applies policies and procedures for technical escort of chemical, biological, and nuclear materials and radioactive wastes; provides technical assistance regarding conventional ammunition to field activities; interprets technical publications and trains enlisted specialists; classifies, evaluates, or determines disposition of captured or damaged ammunition; supervises load testing and calibration and use of ammunition test and handling equipment; participates in the investigation of accidents; prepares and reviews reports including investigative reports; is familiar with military and civilian tariffs and the logistics of supply and transportation; ensures compliance with safety and security regulations pertaining to ammunition and missiles; applies Occupational Safety and Health Act regulations and procedures; knows physiological effects of, protective measures against, and emergency and first aid procedures employed after exposure to toxic chemicals; knows fire fighting procedures for conventional and special ammunition; plans and conducts safety programs for personnel handling ammunition and missiles; reports on problem areas related to accidents and changes to procedures for storing and handling hazardous chemicals; establishes and maintains control of ammunition stocks and ensures accountability of munitions material; may serve as detachment commander, instructor at a formal service school, advisor to member of allied

armies, or advisor to research, development, testing, and evaluation activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in physical science, 3 in industrial safety, and 3 in instrumentation. In the upper-division baccalaureate category, 3 semester hours in human relations in business, 3 in technical writing, 3 in security management, 3 in logistics management, 3 in maintenance management, 3 in operations management, 3 in communication techniques for managers, and 3 for field experience in management; if served as CW3 or CW4, 3 additional semester hours for field experience in management; if served as MW, 6 additional semester hours for field experience in management (4/91).

MOS-911A-002

NUCLEAR WEAPONS TECHNICIAN
911A0

Exhibit Dates: 1/90–12/90.

Career Pattern

May have progressed to Nuclear Weapons Technician from MOS 55D (Explosive Ordnance Disposal Specialist), MOS 55G (Nuclear Weapons Specialist), or 55Z (Ammunition Supervisor).

Description

Supervises the assembly, disassembly, inspection, test, repair, modification, maintenance, security, and safety of nuclear warhead subsections, projectiles, munitions, components, and associated trainers; supervises from 8 to 40 persons engaged in the maintenance calibration of the test and handling equipment associated with nuclear materials and weapons; determines the acceptability of nuclear warhead sections and subassemblies to ensure their reliability through close supervision and personal inspection of maintenance operations, including electronic component replacement, nuclear material replacement, and proper storage and handling; ensures that equipment modifications are accomplished as announced; examines, interprets, rewrites, and disseminates technical materials for revised operating procedures, orders, technical publications, new test equipment, and new safety procedures pertinent to nuclear materials and weapons; enforces the compliance with weapons safety rules, OSHA regulations, security regulations, and unique safety requirements; performs emergency disarming and destruction of nuclear weapons, which involves handling nuclear materials and conventional high explosives; supervises all administrative duties associated with repair and maintenance including requisitions for tools, parts, and supplies; manages personnel assignments; writes reports and maintains records; performs inspections; provides technical guidance and assistance to all support units, operating agencies, and company commanders regarding matters involving nuclear weapons.

Recommendation

In the vocational certificate category, 1 semester hour in electronic circuits and 3 in explosives handling. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic measurements laboratory, 6 in nuclear materials handling, 6 in nuclear security and safety procedures, 3 in personnel supervision and human relations, and 3

in technical writing and report preparation. In the upper-division baccalaureate category, 6 semester hours in management electives and 3 in education electives (8/79).

MOS-911A-003

NUCLEAR WEAPONS TECHNICIAN
911A0

Exhibit Dates: 1/91–Present.

Career Pattern

May have progressed to Nuclear Weapons Technician from MOS 55D (Explosive Ordnance Disposal Specialist), MOS 55G (Nuclear Weapons Specialist), or 55Z (Ammunition Supervisor).

Description

Supervises the assembly, disassembly, inspection, test, repair, modification, maintenance, security and safety of nuclear warhead subsections, projectiles, munitions, components, and associated trainers; supervises from 8 to 40 persons engaged in the maintenance calibration of the test and handling equipment associated with nuclear materials and weapons; determines the acceptability of nuclear warhead sections and subassemblies to ensure their reliability through close supervision and inspection of maintenance operations, including electronic component replacement, nuclear material replacement, and proper storage and handling; ensures that equipment modifications are accomplished as announced; examines, interprets, rewrites, and disseminates technical materials for revised operating procedures, orders, technical publications, new test equipment, and new safety procedures pertinent to nuclear materials and weapons; enforces the compliance with weapons safety rules, OSHA regulations, security regulations, and unique safety requirements; performs emergency disarming and destruction of nuclear weapons, which involves handling nuclear materials and conventional high explosives; supervises all administrative duties associated with repair and maintenance including requisitions for tools, parts, and supplies; manages personnel assignments; writes reports and maintains records; performs inspections; provides technical guidance and assistance to all support units, operating agencies, and company commanders regarding matters involving nuclear weapons.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in physical science, 3 in industrial safety, and 3 in instrumentation. In the upper-division baccalaureate category, 3 semester hours in human relations in business, 3 in technical writing, 3 in security management, 3 in logistics management, 3 in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 for field experience in management; if served as CW3 or CW4, 3 additional semester hours for field experience in management; if served as MW, 6 additional semester hours for field experience in management (4/91).

MOS-912A-001

LAND COMBAT SUPPORT MISSILE SYSTEMS
TECHNICIAN
912A0

Exhibit Dates: 1/90–8/91.

Career Pattern

May have progressed to Land Combat Support Missile Systems Technician from any of the following MOS's: 27B, 27E, 27F, 27G, 27L, 27M, 27N, and 27Z.

Description

Manages supply, equipment, facility, and personnel in the maintenance and repair of land combat support missile systems (short or medium-distance guided missile weapon systems), associated system-designed electronic test systems, and training devices; directs the activities of personnel engaged in isolating malfunctions occurring in electronic firing and guiding systems and components; analyzes complex malfunctions; supervises repair of and modifications to system components, including guidance control systems, optical trackers, modulators, infrared sensors, conduct-of-fire trainers, missiles, and specialized test equipment; oversees supply management and preparation of work reports and maintenance records; forecasts supply requirements; ensures that final inspections and checkout procedures are conducted; examines, interprets, and disseminates technical material, including orders, bulletins, and manuals; instructs enlisted specialists in troubleshooting techniques, diagnostic procedures, and the interpretation of tests on system components, circuits, and optical elements; applies techniques and safety procedures for handling explosive components; may serve as instructor at a formal training school.

Recommendation

In the vocational certificate category, 2 semester hours in use of basic hand tools. In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics theory and laboratory, 3 in personnel supervision, 3 for field experience in management, 3 in industrial/human relations, 2 in maintenance management, and 1 in technical report writing. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management electives (3/77).

MOS-912A-002

LAND COMBAT MISSILE SYSTEMS TECHNICIAN
912A0

Exhibit Dates: 9/91–Present.

Career Pattern

May have progressed to Land Combat Support Missile System Technician from any of the following MOS's: 27B (Land Combat Support System Test Specialist), 27E (TOW/Dragon Repairer), 27F (Vulcan Repairer), 27G (Chaparral/Redeye Repairer), 27L (Lance System Repairer), 27M (Multiple Launch Rocket System Repairer), 27N (Forward Area Alerting Radar Repairer), or 27Z (Land Combat/Air Defense Systems Maintenance Chief).

Description

Serves as a technical manager for the land combat missile system; manages the logistics of supply, production and control, personnel management, equipment and facility in maintenance and repair of land combat support missile systems; directs the activities of personnel engaged in isolating malfunctions occurring in electronic firing and guiding systems and components; analyzes complex malfunctions; supervises repair of and modifications to system components, including guidance control systems, optical trackers, modulators, infrared sensors,

conduct-of-fire trainers, missiles, and specialized test equipment; oversees supply management and preparation of work reports and maintenance records; forecasts supply requirements; ensures that final inspections and checkout procedures are conducted; examines, interprets, and disseminates technical material, including orders, bulletins, and manuals; instructs enlisted specialists in troubleshooting techniques, diagnostic procedures, and the interpretation of tests on system components, circuits, and optical elements; knows techniques and safety procedures for handling explosive components; may serve as instructor at a formal training school.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy and 3 in technical writing. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (9/91).

MOS-913A-001

ARMAMENT REPAIR TECHNICIAN
913A0

Exhibit Dates: 1/90–2/92.

Career Pattern

This MOS was formerly designated MOS 421A. May have progressed to Armament Repair Technician from any of the following MOS's: 41C, 45B, 45D, 45E, 45G, 45K, 45L, 45N, 45T, or 45Z.

Description

Manages activities and personnel engaged in the maintenance and repair of small arms, artillery and armor weapons, and crew-served weapons; oversees the inspection, repair, replacement, and modification of armament materiel; supervises inspections and check-out procedures; directs shop operations, including planning work flow, requisitioning parts and supplies, inspecting maintenance procedures, and providing technical assistance to maintenance personnel in artillery or armor units; must know nomenclature design, operation, and employment of the Army's current inventory of field artillery weapons, armor weapons, and small arms; trains enlisted specialists in the use of shop equipment and power tools, in inspection and test procedures, and in the disassembly, repair, and adjustment of armament materiel; uses technical publications and interprets specifications; uses automated and manual systems for supply of technical publications, tools, repair parts, and related maintenance supplies; applies regulations and procedures pertaining to physical security, accountability, and shipment of weapons; may serve as chief of a team, section, or platoon in field activities; may serve as instructor in a formal training school.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 for field experience in management, 3 in industrial/human relations, 3 in maintenance/shop management and record keeping, 3 in use and care of hand and power tools, and 1 in industrial safety. In the upper-division baccalaureate category, 3 semester hours in personnel management and training (3/77).

MOS-913A-002

ARMAMENT REPAIR TECHNICIAN
913A0

Exhibit Dates: 3/92–Present.

Career Pattern

May have progressed to Armament Repair Technician from any of the following MOS's: 41C, 45B, 45D, 45E, 45G, 45K, 45L, 45N, 45T, or 45Z.

Description

Manages activities and personnel engaged in the maintenance and repair of small arms, artillery and armor weapons, and crew-served weapons; oversees the inspection, repair, replacement, and modification of armament materiel; supervises inspections and checkout procedures; directs shop operations, including planning work flow, requisitioning parts and supplies, inspecting maintenance procedures, and providing technical assistance to maintenance personnel in artillery or armor units; must know nomenclature design, operation, and employment of the Army's current inventory of field artillery weapons, armor weapons, and small arms; trains enlisted specialists in the use of shop equipment and power tools, in inspection and test procedures, and in the disassembly, repair, and adjustment of armament materiel; uses technical publications and interprets specifications; uses automated and manual systems for supply of technical publications, tools, repair parts, and related maintenance supplies; applies regulations and procedures pertaining to physical security, accountability, and shipment of weapons; may serve as chief of a team, section, or platoon in field activities; may serve as instructor in a formal training school.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (3/92).

MOS-914A-001

ALLIED TRADES TECHNICIAN
914A0

Exhibit Dates: 1/90-2/92

Career Pattern

May have progressed to Allied Trades Technician from MOS 44B (Metal Worker) or MOS 44E (Machinist).

Description

Supervises setup, maintenance, and operation of machine tools used to make or repair metal parts, mechanisms, tools, or machinery; applies knowledge of mechanics, shop mathematics, metal properties, and layout machinery procedures; manages service section shop engaged in metalworking, automotive component repair, and the allied trades; supervises personnel who operate general or specialized metalworking machines such as lathes and turning machines; supervises automotive body repair and painting, glass, plastic, machine, canvas, leather, welding, and woodworking shop activities and the recovery of all types of wheeled or track vehicles or equipment; controls work quality by instruction of subordinates and inspection of work in progress and completed work; interprets regulations, orders, and specifications and demonstrates correct procedures; plans shop layout; conducts training and orientation of personnel in technical procedures and equipment innovations; directs shop operations, including supply, scheduling, work flow, and personnel management; uses automated and manual systems in managing supplies of repair parts, tools, fuel, and technical publications; prepares, implements, and maintains standard operating procedures for management of maintenance activities; may be employed as a service school instructor; performs other officer-level duties required by mission of the unit to which assigned.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in administrative office management, 3 in business communication, 3 in record keeping, 3 in computer and data processing concepts, and 3 personnel supervision. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, 3 for field experience in management, 3 in education electives (instruction and counseling), and additional credit in leadership and supervision on the basis of institutional evaluation; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (5/78).

MOS-914A-002

ALLIED TRADES TECHNICIAN
914A0

Exhibit Dates: 3/92-Present.

Career Pattern

May have progressed to Allied Trades Technician from MOS 44B (Metal Worker) or MOS 44E (Machinist).

Description

Supervises setup, maintenance, and operation of machine tools used to make or repair metal parts, mechanisms, tools or machinery; applies knowledge of mechanics, shop mathematics, metal properties, and layout machinery procedures; manages service section shop

engaged in metalworking, automotive component repair, and the allied trades; supervises personnel who operate general or specialized metalworking machines such as lathes and turning machines; supervises automotive body repair and painting, glass, plastic, machine, canvas, leather, welding, and woodworking shop activities and the recovery of all types of wheeled or track vehicles or equipment; controls work quality by instruction of subordinates and inspection of work in progress and completed work; interprets regulations, orders, and specifications and demonstrates correct procedures; plans shop layout; conducts training and orientation of personnel in technical procedures and equipment innovations; directs shop operations, including supply, scheduling, work flow, and personnel management; uses automated and manual systems in managing supplies of repair parts, tools, fuel, and technical publications; prepares, implements, and maintains standard operating procedures for management of maintenance activities; may serve as a service school instructor; performs other officer-level duties required by mission of the unit to which assigned.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (3/92).

MOS-915A-001

WHEEL VEHICLE MAINTENANCE TECHNICIAN
915A0

Exhibit Dates: 1/90-7/92.

Career Pattern

May have progressed from any of the following MOS's: 63B, 63D, 63E, 63F, 63G, 63H, 63N, 63S, 63T, 63Y, 63W, or 63Z.

Description

Supervises the maintenance and repair of wheel and track vehicles and accessory equipment; inspects vehicles; prepares, implements, and maintains procedures for management of maintenance activities; interprets regulations, technical manuals, and orders pertaining to automotive and accessory equipment maintenance functions; supervises personnel assigned to maintenance sections, motor pools, or similar activities; knows the theory, function, and operation of internal combustion engines and the assembly, nomenclature, checkout, inspection procedures, diagnostic tests, tuning, and other adjustments of automotive and nonengineer mechanical equipment, including electrical, mechanical, hydraulic, pneumatic, and hydropneumatic subsystems; uses special tools and test equipment; performs emergency maintenance

procedures, including use of salvaged parts, reconditioning of equipment with hand tools, and substitution of parts and minor assemblies; uses automated and manual systems for supply of technical publications, tools, and repair parts; uses unit readiness reporting system; knows the use of automotive, metal, and tire shop equipment; diagnoses complex malfunctions and instructs personnel on isolation and repair of unusual malfunctions; may serve as a service school instructor; writes technical memoranda and other correspondence.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in administrative office management, 3 in business communication, 3 in record keeping, 3 in computer and data processing concepts, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, 3 for field experience in management, 3 in education electives (instruction and counseling), and additional credit in leadership and supervision on the basis of institutional evaluation; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (5/78).

MOS-915A-002

WHEEL VEHICLE MAINTENANCE TECHNICIAN
(LIGHT)
915A0

Exhibit Dates: 8/92-Present.

Career Pattern

May have progressed from any of the following MOS's: 62B, 63B, 63D, 63E, 63F, 63G, 63N, 63S, 63T, 63Y, 63W, or 63Z.

Description

Plans, organizes, and performs unit maintenance on wheel vehicles, light track vehicles (except Bradley), self-propelled artillery systems, fire control, armament, ground support, and power-driven chemical equipment; analyzes unit equipment malfunctions; directs unit work loads; enforces fire and safety programs; manages calibration, oil analysis, and readiness reports; using the Army maintenance management system, manages periodic maintenance, vehicle dispatcher, vehicle repair, and common task training; conducts technical inspections of units; establishes procedures; instructs subordinate personnel; supervises personnel assigned to maintenance sections, motor pools, or similar activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 2 in records and information management, and 2 in computer applications. If rank was CW2 or CW3: 1 additional semester hour in computer applications. If rank was CW4: 2 additional semester hours in computer applications. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management. If rank was CW2, 3 additional semester hours for field experience in management, 3 in management problems, 3 in operations management, 3 in communication techniques for

managers, and 3 in fleet maintenance management. If rank was CW3, 5 additional semester hours for field experience in management, 3 in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 in fleet maintenance management. If rank was CW4, 7 additional semester hours for field experience in management, 3 in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 in fleet maintenance management (8/92).

MOS-915B-001

LIGHT TRACK SYSTEMS MAINTENANCE TECHNICIAN
915B0

Exhibit Dates: 1/90-3/91. The skills, competencies, and knowledge required to perform the duties of MOS 915B are comparable to those of MOS 915A. Use the recommendation in exhibit MOS-915A-001. In 4/91, MOS 915B was discontinued and its duties were transferred to MOS 915A.

Description

MOS-915C-001

FIELD ARTILLERY SYSTEMS MAINTENANCE
TECHNICIAN
915C0

Exhibit Dates: 1/90-3/91. The skills, competencies, and knowledge required to perform the duties of MOS 915C are comparable to those of MOS 915A. Use the recommendation in exhibit MOS-915A-001. In 4/91 MOS 915C was discontinued and its duties were transferred to MOS 915A.

Description

MOS-915D-001

ARMOR/CAVALRY SYSTEMS MAINTENANCE
TECHNICIAN
915D0

Exhibit Dates: 1/90-7/92.

Career Pattern

May have progressed from warrant officer MOS 915A (Wheel Vehicle Maintenance Technician), MOS 915B (Light Track Systems Maintenance Technician), or MOS 915C (Field Artillery Systems Maintenance Technician).

Description

Supervises the maintenance and repair of wheel and track vehicles and accessory equipment; inspects vehicles; prepares, implements, and maintains procedures for management of maintenance activities; interprets regulations, technical manuals, and orders pertaining to automotive and accessory equipment maintenance functions; supervises personnel assigned to maintenance sections, motor pools, or similar activities; knows the theory, function, and operation of internal combustion engines and the assembly, nomenclature, checkout, inspection procedures, diagnostic tests, tuning, and other adjustments of automotive and nonengineer mechanical equipment, including electrical, mechanical, hydraulic, pneumatic, and hydropneumatic subsystems; uses special tools and test equipment; performs emergency maintenance methods, including use of salvaged parts, reconditioning of equipment with hand tools, and substitution of parts and minor assemblies; uses automated and manual systems for supply of technical publications, tools, and repair parts;

uses unit readiness reporting system; knows the use and functioning of automotive, metal, and tire shop equipment; diagnoses complex malfunctions and instructs personnel on isolation and repair of unusual malfunctions; may serve as a service school instructor; writes technical memoranda and other correspondence.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in administrative office management, 3 in business communication, 3 in record keeping, 3 in computer and data processing concepts, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, 3 for field experience in management, 3 in education electives (instruction and counseling), and additional credit in leadership and supervision on the basis of institutional evaluation; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (5/78).

MOS-915D-002

UNIT MAINTENANCE TECHNICIAN (HEAVY)
915D0

Exhibit Dates: 8/92-Present.

Career Pattern

Progressed from MOS 915A (Unit Maintenance Technician, Light).

Description

Plans, organizes, and executes unit maintenance of wheel, light track vehicles and armament, fire control, ground support, and power-driven chemical equipment; analyzes equipment malfunctions; directs unit repair work loads; establishes and enforces shop fire and safety programs; manages unit calibration, oil analysis, and readiness programs; directs recovery of unit equipment; manages the Army maintenance management system at unit level; oversees maintenance schedules, vehicle dispatch, parts requisitioning, and common task training; conducts unit technical inspections and instructs subordinate personnel; supervises personnel assigned to maintenance sections, motor pools, or similar activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 2 in records and information management, and 2 in computer applications. If rank was CW2 or CW3: 1 additional semester hour in computer applications. If rank was CW4: 2 additional semester hours in computer applications. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management. If rank was CW2: 3 additional semester hours for field experience in management, 3 in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 in fleet maintenance management. If rank was CW3: 5 additional semester hours for field experience in management, 3 in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 in fleet maintenance management. If rank was CW4: 7 additional semester hours

for field experience in management, 3 in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 in fleet maintenance management (8/92).

MOS-915E-001

SUPPORT/STAFF MAINTENANCE TECHNICIAN
915E0

Exhibit Dates: 1/90-7/92.

Career Pattern

May have progressed from warrant officer MOS 915A (Wheel Vehicle Maintenance Technician), MOS 915B (Light Track Systems Maintenance Technician), MOS 915C (Field Artillery Systems Maintenance Technician), or MOS 915D (Armor/Cavalry Systems Maintenance Technician).

Description

Supervises the maintenance and repair of wheel and track vehicles and accessory equipment; inspects vehicles; prepares, implements, and maintains procedures for management of maintenance activities; interprets regulations, technical manuals, and orders pertaining to automotive and accessory equipment maintenance functions; supervises personnel assigned to maintenance sections, motor pools, or similar activities; applies the theory, function, and operation of internal combustion engines, and the assembly, nomenclature, checkout, inspection procedures, diagnostic tests, tuning, and other adjustments of automotive and nonengineer mechanical equipment, including electrical, mechanical, hydraulic, pneumatic, and hydropneumatic subsystems; uses special tools and test equipment; knows emergency maintenance methods, including use of salvaged parts, reconditioning of equipment with hand tools, and substitution of parts and minor assemblies; uses automated and manual systems for supply of technical publications, tools, and repair parts; uses unit readiness reporting system; knows the use and functioning of automotive, metal, and tire shop equipment; diagnoses complex malfunctions and instructs personnel on isolation and repair of unusual malfunctions; may serve as a service school instructor; writes technical memoranda and other correspondence.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in shop management, 3 in maintenance management, 3 in administrative office management, 3 in business communications, 3 in record keeping, 3 in computer and data processing concepts, and 3 in personnel supervision. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management problems, 3 for field experience in management, 3 in education electives (instruction and counseling), and additional credit in leadership and supervision on the basis of institutional evaluation; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (5/78).

MOS-915E-002

SUPPORT/STAFF MAINTENANCE TECHNICIAN
915E0

Exhibit Dates: 8/92-Present.

Career Pattern

May have progressed from warrant officer MOS 915A (Unit Maintenance Technician, Light) or MOS 91D (Unit Maintenance Technician, Heavy).

Description

Knows and has performed duties described for Unit Maintenance Technician (Light); manages major repair of automotive equipment and work flow and ensures work quality; establishes maintenance and repair schedules and internal administrative procedures; writes technical training materials; instructs students in school environment, diagnoses complex auto equipment malfunctions and instructs personnel on repair; establishes shop fire and safety programs; manages equipment calibration, used product disposal, and monitors common task training; advises higher command levels as a subject matter expert; supervises personnel assigned to maintenance sections, motor pools, or similar activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 2 in records and information management, and 2 in computer applications. If rank was CW2 or CW3: 1 additional semester hour in computer applications. If rank was CW4: 2 additional semester hours in computer applications. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management. If rank was CW2: 3 additional semester hours for field experience in management, 3 in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 in fleet maintenance management. If rank was CW3: 5 additional semester hours for field experience in management, 3 in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 in fleet maintenance management. If rank was CW4: 7 additional semester hours for field experience in management, 3 in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 in fleet maintenance management (8/92).

MOS-916A-001

HIGH-TO-MEDIUM ALTITUDE AIR DEFENSE DIRECT
SUPPORT/GENERAL SUPPORT
MAINTENANCE TECHNICIAN
916A0

Exhibit Dates: Pending Evaluation. 4/92–Present.

MOS-917A-001

MANEUVER FORCES AIR DEFENSE SYSTEMS
TECHNICIAN
917A0

Exhibit Dates: Pending Evaluation. 4/92–Present.

MOS-918A-001

TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT
(TMDE) MAINTENANCE SUPPORT
TECHNICIAN
918A0

Exhibit Dates: 9/91–Present.

Career Pattern

This MOS was formerly designated MOS 252A. May have progressed to Test, Measurement, and Diagnostic Equipment Maintenance Support Technician from MOS 35H (Test, Measurement, and Diagnostic Equipment Maintenance Support Specialist).

Description

Supervises or repairs and calibrates precision equipment used for the measuring, testing, controlling, and indicating temperature, pressure, vacuum, fluid flow, liquid level, mechanical motion, rotation, humidity, density, acidity, alkalinity, and combustion (equipment may include tools, dial pressure gauges, scales, balances, direction and sighting devices, oscilloscopes, meters, digital test equipment, signal generators, power supplies, and specialized mechanical and electronic testing equipment); maintains equipment within prescribed manufacturer standards and national or international bureau of standards tolerances and ensures that calibration surveillance standards are met; manages activities and personnel engaged in calibration of instruments or system components of all types of Army equipment and weapons; interprets and analyzes measurement data and specifications of equipment, instruments, or gauges to conform to specified standards; develops procedures for testing and diagnosing malfunctions or implements established guidance to adjust or repair item requiring calibration; interprets technical data, schematics, and transfer standards in the use and operation of this material; supervises testing systems to isolate malfunctions and faulty components; instructs subordinates on the correctional adjustments to obtain special readings or characteristics including frequency or inductance; certifies instruments for accuracy; may be chief of section engaged in calibration activities and may supervise up to 50 calibration technicians; may be employed as a contracting officer's representative to monitor and evaluate the performance of contractor personnel performing maintenance calibration functions for the Army; may be assigned as a service school instructor at Army or joint service school and typically is involved in writing training materials and teaching update courses to subordinates; oversee budget of calibration unit; oversees office, personnel, job placement, employee relations, shipping of equipment, and other essential officer-level duties.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer literacy and 3 in technical writing. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (9/91).

MOS-919A-001

ENGINEER EQUIPMENT REPAIR TECHNICIAN
919A0

Exhibit Dates: Pending Evaluation. 8/93–Present.

MOS-920A-001

PROPERTY BOOK TECHNICIAN
920A0

Exhibit Dates: 1/90–3/92.

Career Pattern

May have progressed to Property Book Technician from MOS 76J (Medical Supply Specialist) or MOS 76Y (Unit Supply Specialist).

Description

Administers and manages the Army supply systems; maintains inventory control; supervises purchasing procedures, inventory handling and storage, record keeping, and stock control; is responsible for accounting and management of capital stock for units and installations; uses manual and automated property accounting procedures; develops and administers supply budgets for units or installations; forecasts and plans supply requirements; uses automatic data processing in the supply areas; gives technical advice to subordinate unit and activity commanders; establishes procedures for requisitioning, receiving, storing, and issuing supplies; establishes and maintains formal and informal lines of communication with supply control, maintenance, and transportation units with supported activities; may monitor or evaluate supply contractor's performance; prepares reports and correspondence.

Recommendation

In the vocational certificate category, 3 semester hours in material handling and safety. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical report writing, 3 in personnel supervision, 3 in inventory management, 3 in introduction to computer concepts, 3 in warehousing and storage, 3 in record keeping, 3 in purchasing, 3 in material handling, 3 in principles of financial budgeting, and 2 in keypunch. In the upper-division baccalaureate category, 3 semester hours in management electives and 3 in personnel management and training; if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (10/77).

MOS-920A-002

PROPERTY ACCOUNTING TECHNICIAN
920A0

Exhibit Dates: 4/92–Present.

Career Pattern

May have progressed to Property Book Technician from MOS 76J (Medical Supply Specialist) or MOS 76Y (Unit Supply Specialist).

Description

Maintains an organization's property accountability through the management of property books, both automated and nonautomated; responsible for accounting and management of capital stock for units and installations;

uses manual and automated property accounting procedures; performs financial inventory accounting as applied to the Army's budget system; forecasts and plans supply requirements; uses automatic data processing in the supply area; gives technical advice to subordinate unit and activity commanders; establishes procedures for requisitioning, receiving, storing, and issuing supplies; establishes and maintains formal and informal lines of communication with supply control, maintenance, and transportation units in supported activities; may monitor or evaluate supply contractor's performance; prepares reports and correspondence.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, and 7 additional semester hours for field experience in management (4/92).

MOS-920B-001

REPAIR PARTS TECHNICIAN
920B0

Exhibit Dates: 1/90–3/92.

Career Pattern

May have progressed to Repair Parts Technician from MOS 76J (Medical Supply Technician), MOS 76P (Materiel Control and Accounting Specialist), or MOS 76V (Materiel Storage and Handling Specialist).

Description

Administers and manages the Army supply system as it applies to maintenance support units usually at overseas locations; supervises the requisitioning, storage, distribution, and accounting of repair parts and maintenance-related supply items; applies manual and automated property accounting procedures; knows fundamentals of data processing as they apply to inventory management; knows the interrelationship of supply, maintenance, and transportation; knows policies and procedures for and interprets regulations regarding crating, packaging, preserving, shipping, and storing materiel and equipment; uses supply catalogs, technical manuals, bulletins, modification work orders, and cross-reference lists in requisitioning, receiving, storing, issuing, and identifying equipment, supplies, and repair parts; forecasts the requirements of repair parts and maintenance-related supply items; develops and administers supply budgets; inspects supported units to ensure that stock levels are adequate and within prescribed limits; makes inventory recommendations; provides technical guidance to supported unit personnel; develops operating procedures and performs administrative duties related to the supply activity; evaluates effi-

ciency and effectiveness of supply operations; prepares correspondence and reports.

Recommendation

In the lower-division baccalaureate/associate degree category, 2 semester hours in keypunch, 3 in record keeping, 3 in technical report writing, 3 in inventory management, 3 in warehousing and storage, 3 in introduction to computer concepts, 3 in purchasing, 3 in material handling and safety, 3 in principles of financial budgeting, 3 in personnel supervision, and additional credit in traffic management on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in management electives, 3 in personnel management and training, and additional credit in transportation and physical distribution on the basis of institutional evaluation. If rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management (10/77).

MOS-920B-002

SUPPLY SYSTEMS TECHNICIAN
920B0

Exhibit Dates: 4/92–Present.

Career Pattern

May have progressed to Repair Parts Technician from MOS 76J (Medical Supply Specialist), MOS 76P (Materiel Control and Accounting Specialist), or MOS 76V (Materiel Storage and Handling Specialist).

Description

Administers and manages the Army supply system as it applies to maintenance support units usually at overseas locations; supervises the requisitioning, storage, distribution, and accounting of repair parts and maintenance-related supply items; applies manual and automated property accounting procedures; applies fundamentals of data processing as they apply to inventory management; knows the interrelationship of supply, maintenance, and transportation; applies policies and procedures for and interprets regulations regarding crating, packaging, preserving, shipping, and storing materiel and equipment; uses supply catalogs, technical manuals, bulletins, modification work orders, and cross-reference lists in requisitioning, receiving, storing, issuing, and identifying equipment, supplies, and repair parts; forecasts the requirements of repair parts and maintenance-related supply items; develops and administers supply budgets; inspects supported units to ensure that stock levels are adequate and within prescribed limits; makes inventory recommendations; provides technical guidance to supported unit personnel; develops operating procedures and performs administrative duties related to the supply activity; evaluates efficiency and effectiveness of supply operations; prepares correspondence and reports; instructs, manages, and supervises supply personnel.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in computer applications, 3 in personnel supervision, and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management; if rank was

CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (4/92).

MOS-921A-001

AIRDROP EQUIPMENT TECHNICIAN
921A0

Exhibit Dates: 1/90–1/92.

Career Pattern

May have progressed to Airdrop Equipment Technician from MOS 43E (Parachute Rigger).

Description

Supervises preparation of equipment for airdrop, airdrop of supplies and equipment, parachute packing, and repair of parachutes and associated equipment; plans and organizes activities for repair of airdrop equipment and establishes rigging sites to support airborne operations; instructs personnel in airdrop procedures; prescribes procedures used in adjustment, care, and preservation of parachutes and other support equipment tools and machinery; provides technical guidance and serves as liaison to commanders; provides technical assistance to the personnel responsible for life cycle management of items, including design, research and development, testing, supply management, and classification; responsible for providing serviceable and safe parachutes and equipment to units engaged in parachute jumping and related airdrop operations; supervises repacking of parachutes in use; coordinates loading of equipment and supplies into aircraft and participates in joint airdrop load inspections; may serve as a service school instructor; applies maintenance record keeping and inventory control procedures.

Recommendation

In the lower-division baccalaureate/associate degree category, 2 semester hours in communication skills (oral). In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 for management electives. If rank was CW2, 2 semester hours for field experience in management; if rank was CW3, 4 semester hours for field experience in management; if rank was CW4, 6 semester hours for field experience in management; if duty assignment was platoon leader, additional credit in leadership and supervision on the basis of institutional evaluation (5/78).

MOS-921A-002

AIRDROP SYSTEMS TECHNICIAN
921A0

Exhibit Dates: 2/92–Present.

Career Pattern

May have progressed to Airdrop Systems Technician from MOS 43E (Parachute Rigger).

Description

Supervises preparation of equipment for airdrop, airdrop of supplies and equipment, para-

chute packing, and repair of parachutes and associated equipment; plans and organizes activities for repair of airdrop equipment and establishes rigging sites to support airborne operations; instructs personnel in airdrop procedures; prescribes procedures used in adjustment, care, and preservation of parachutes and other support equipment tools and machinery; provides technical guidance and serves as liaison to commanders; provides technical assistance to the personnel responsible for life cycle management of items, including design, research and development, testing, supply management, and classification; responsible for providing serviceable and safe parachutes and equipment to units engaged in parachute jumping and related airdrop operations; supervises repacking of parachutes in use; coordinates loading of equipment and supplies into aircraft and participates in joint airdrop load instructions; may serve as a service school instructor; applies maintenance record keeping and inventory control procedures.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 2 in records and information management. In the upper-division baccalaureate category, 3 semester hours in organizational management and 3 for field experience in management. If rank was CW2, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 3 additional semester hours for field experience in management; if rank was CW3, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 5 additional semester hours for field experience in management; if rank was CW4, add 3 semester hours in management problems, 3 in operations management, 3 in communication techniques for managers, and 7 additional semester hours for field experience in management (2/92).

MOS-922A-001

FOOD SERVICE TECHNICIAN
922A0

Exhibit Dates: 1/90-3/94.

Career Pattern

May have progressed to Food Service Technician from MOS 94B (Food Service Specialist).

Description

Supervises and administers food service activities for installations, commands, or organizations; maintains complete operational control over facilities, personnel, and specialized equipment; supervises the procurement, storage, distribution, and preparation of foods; writes reports; develops procedures for implementing policies from higher authority; uses specialized accounting methods; plans use, layout, and maintenance of food service equipment; in carrying out specialized duties, is required to devote most energies to the technical and human resource areas of food service administration; interprets contracts and monitors contractor's performance; if assigned to hospital food service duties, may be required to perform additional specialized supervisory functions in nutritional and diet therapy areas; may serve as staff advisor to a general officer or provide technical assistance to nonappropriated

fund food service activities; may serve as a service school instructor.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in food service management, 3 in principles of management, 3 in personnel supervision, 3 in food service equipment and layout, and 3 in business report writing. In the upper-division baccalaureate category, 3 semester hours in management problems and 2 for field experience in management, if rank was CW2, 2 additional semester hours for field experience in management; if rank was CW3, 4 additional semester hours for field experience in management; if rank was CW4, 6 additional semester hours for field experience in management; if duty assignment was service school instructor, 3 additional semester hours for a practicum in education; if assigned to a hospital as a food service technician, 3 additional semester hours in nutrition or diet therapy (11/77).

MOS-922A-002

FOOD SERVICE TECHNICIAN
922A0

Exhibit Dates: 4/94-Present.

Career Pattern

May have progressed to Food Service Technician from MOS 94B (Food Service Specialist).

Description

Advises commander and administers food service activities for installation, commands, or organizations; advises on the procurement, storage, distribution, and preparation of food; writes reports; develops procedures for implementing policies from higher authority; uses food management formulas in carrying out specialized duties; focuses on the technical aspects of food service administration; interprets contracts and monitors contractor's performance; may serve as a staff advisor to a general officer or provide technical assistance to nonappropriated fund food service activities; may serve as a service school instructor.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in food service management and 3 in business communications. In the upper-division baccalaureate category, 3 semester hours in management problems, 3 in food cost control, and 3 for field experience in food service management. If duty assignment was a service school instructor, 3 semester hours in training methods (4/94).

Appendix A

The Evaluation Systems

BACKGROUND

Early editions of the *Guide to the Evaluation of Educational Experiences in the Armed Services* were prepared in response to specific needs. Immediately after World War II, the consensus in the educational community was that the practice of granting blanket credit to World War I veterans as a reward for length of service was educationally unsound. Educators concluded that military learning experiences applicable to civilian curricula should be assessed by faculty for potential credit. Therefore, in December 1945, at the request of civilian educational institutions and the regional accrediting associations, the American Council on Education (ACE), established the Commission on Accreditation of Service Experiences, renamed the Commission on Educational Credit and Credentials in 1979, to evaluate military educational programs and to assist institutions in granting credit for such experiences. The first edition of the *Guide* was published in 1946.

The extension of the World War II G.I. Bill to include veterans of the Korean conflict, and the subsequent enrollment of many veterans in colleges and universities, created a need for the second edition, published in 1954.

The 1968 edition was prepared in anticipation of the increased enrollment of veterans resulting from the educational assistance provided under the Veterans Readjustment Benefits Act of 1966, and with the expectation that many would apply for educational credit for their learning experiences in the armed services. In addition, technological advances had necessitated major changes in service training, with a resulting need for new or revised educational credit recommendations.

The 1974 edition was prepared primarily to respond to three emerging considerations. First, because of the growth in vocational and technical programs and the emergence of the concept of postsecondary education, there was a need to evaluate courses for possible credit in the vocational and technical categories in addition to the baccalaureate and graduate categories of previous editions. Second, active-duty servicemembers were enrolling in increasing numbers in civilian educational programs and were seeking credit for military formal courses soon after completing their service school training. Third, credit recommendations were needed for the many courses initiated or revised by the military since 1968.

The 1974 edition marked the beginning of a new approach to reporting evaluations of formal military training. At its fall 1973 meeting, the Commission approved the concept of an ongoing *Guide* system. Elements of that system included the publication of biennial editions of the *Guide* through computerized composition, continual staff review of courses, and the computerized storage of course

information for a more rapid updating of credit recommendations. In 1994, the computerized *Guide* system came in-house, and all data are managed by the Military Evaluations Program staff.

Over the years the recommendations contained in the *Guide* have assisted education institutions in granting credit to hundreds of thousands of servicemembers. Surveys showed that most of the nation's colleges and universities use the formal course recommendations in awarding credit to veterans and active-duty service personnel. The recommendations have been widely accepted because military formal courses share certain key elements with traditional postsecondary programs. They are formally approved and administered, are designed for the purpose of achieving learning outcomes, are conducted by qualified persons with specific subject-matter expertise, and are structured to provide for the reliable and valid assessment of student learning.

The recommendations reflect the Commission's belief that it is sound educational practice to give recognition for learning, no matter how or where that learning has been attained, provided that the learning is at the appropriate level, is in the appropriate area, and is applicable to an individual's postsecondary program of study.

Until 1975, however, no mechanism existed for providing recognition for the learning a servicemember attained through such learning experiences as self-instruction, on-the-job training, and work experience. In 1975, the Commission implemented a program for the evaluation of learning represented by demonstrated proficiency in Army enlisted military occupational specialties (MOS's). The MOS evaluation procedures were developed, tested, and refined during a feasibility study conducted by ACE and sponsored by the Department of the Army. Evaluators made recommendations for educational credit and advanced standing in apprentice training programs. Subsequently, the occupational assessment program of the Commission was expanded to include Navy general rates, ratings, warrant officers and limited duty officers, Army warrant officer MOS's, Navy warrant officer and limited duty officer specialties, Coast Guard enlisted ratings and warrant officers, and selected Marine Corps MOS's. A small number of Naval Enlisted Classifications (NECs) have also been evaluated.

In 1994, ACE published the *1954–1989 Guide to the Evaluation of Educational Experiences in the Armed Services*. It contains all courses and occupations with exhibit dates of 1954 to December 1989. **Please retain the 1954–1989 Guide as a permanent reference and use it with the current Guide to the Evaluation of Educational Experiences in the Armed Services.**

Beginning with the 1994 edition, the *Guide* contains all course and occupation exhibits with start dates of 1/90 and later. This is also true for the 1996 *Guide*.

THE COURSE EVALUATION SYSTEM

Courses listed in the *Guide* are service school courses conducted on a formal basis, i.e., approved by a central authority within each service and listed by the service in its catalog. These courses are conducted for a specified period of time with a prescribed course of instruction, in a structured learning situation, and with qualified instructors.

Most courses are given on a full-time basis. After 1981, ACE began evaluation of courses that are 45 academic hours in length. Prior to that time courses evaluated were at least of two weeks duration, or, if less than two weeks in length, the course had to include a minimum of 60 contact hours of instruction. Before 1973, the minimum length requirement was three weeks or 90 contact hours.

In the fall of 1973, the Commission approved the following procedures and guidelines for the evaluation of military formal courses.

The Evaluation Process

Courses are evaluated by teams of at least three subject-matter specialists (college and university professors, deans, and other academicians). Through discussion and the application of evaluation procedures and guidelines, team members reach a consensus on the amount and category of credit to be recommended.

Evaluation materials include the course syllabus, training materials, tests, textbooks, technical manuals, and examinations. Additional information may be obtained from discussions with instructors and program administrators, classroom observations, and examination of instructional equipment and laboratory facilities.

Evaluators have two major tasks for each course: the formulation of a credit recommendation and the preparation of the course's description. The credit recommendation consists of the category of credit, the number of semester hours recommended, and the appropriate subject area. Evaluators phrase the course description (which appears in the *Guide* exhibits under the headings Learning Outcomes or Objectives and Instruction) in terms meaningful to civilian educators. The course description supplements the credit recommendations by summarizing the nature of a given course.

Selection of Evaluators

Nominations for course evaluators are requested from postsecondary institutions, professional and disciplinary societies, education associations, other evaluators, and regional accrediting associations.

The criteria for the selection of formal course evaluators are as follows:

1. The area of an evaluator's competence will closely approximate the area of the training to be evaluated.

2. Preference will be given to candidates with five or more years of postsecondary teaching or administrative experience, including curriculum development.
3. Preference will be given to candidates who are generally receptive to the recognition of learning that occurs in a variety of settings.

An evaluator candidate is interviewed by a staff member to determine whether the individual meets the selection criteria.

An effort is also made to obtain a diverse geographic representation on the team. Subject-matter specialists represent a variety of postsecondary institutional types.

ARMY ENLISTED OCCUPATION CLASSIFICATION SYSTEM

The following paragraphs include background information on Army enlisted MOS's, a description of the enlisted MOS classification system, and detailed information on the enlisted MOS evaluation score.

The Army Enlisted MOS Classification System

The Army Enlisted Military Occupational Specialty (MOS) Classification System is a comprehensive taxonomy of Army enlisted duty positions. Closely related positions that require similar qualifications and the performance of similar duties are grouped as an MOS under a generic title. The job title *Legal Specialist*, for example, encompasses duty assignments such as preparing correspondence, maintaining files, and researching.

Soldiers and Army veterans and Army records usually refer to enlisted occupations using a designation with *at least* five characters (e.g., 71D10, 71D20, 71D30). The first three characters (two numbers and a letter) identify the MOS (e.g., 71D is the designation for Legal Specialist). The fourth character, a number from one to five, indicates the level of skill within the MOS. Only the skills, competencies, and knowledge represented by *the first four characters* of the MOS designation are evaluated for comparability with civilian learning.

The fifth character is normally zero; in some cases, a letter is used as a special qualification identifier (SQI) to indicate a soldier's specific duty assignment or special qualifications. In fact, an enlisted soldier's occupation may be expressed by as many as nine characters, but because the last five characters indicate special qualifications that are variable, the learning they represent is not evaluated by ACE.

The first three characters, then, represent the MOS, or occupational designation, and the fourth character represents the skill level within the MOS. In accordance with Army practice, *skill levels are referred to in this publication with a neutral fifth character: zero* (i.e., 10, 20, 30, 40, and 50). Each enlisted MOS has from one to five skill levels, depending on the types of duty positions encompassed by the MOS. The five skill levels may be broadly characterized as follows:

Skill Level 10 identifies entry-level positions requiring performance of tasks under direct supervision.

Skill Level 20 identifies positions requiring performance of more difficult tasks under general supervision; and in some instances, involving supervision of soldiers in Skill Level 10.

Skill Level 30 identifies positions requiring performance of still more difficult tasks and involving first-line supervision of soldiers in Skill Levels 10 and 20.

Skill Level 40 identifies positions requiring relatively detailed knowledge of all tasks specified for a given MOS, normally involving first-line supervision of soldiers in Skill Levels 10, 20, and 30, and involving managerial duties.

Skill Level 50 identifies managerial and supervisory positions requiring broad knowledge of the tasks performed at all subordinate levels in a given MOS and related MOS's in order to coordinate and give direction to work activities.

Thus, each skill level represents progressively complex duties, increased skills, and greater responsibility; and proficiency in a higher skill level includes the ability to perform the tasks required for the lower skill level(s), as well as additional tasks.

Enlisted MOS's are grouped into career management fields within the enlisted MOS classification system. Each career management field provides opportunities for advancement and career progression among related MOS's.

The Enlisted MOS Evaluation System

The Army regularly evaluates each enlisted soldier's MOS proficiency through the Enlisted Evaluation System. Individuals are evaluated to determine whether they have acquired and maintained the necessary MOS skills, competencies, and knowledge, as codified and described in the enlisted MOS classification system. The means used to evaluate soldiers have undergone a series of changes over the years.

An individual is awarded an MOS skill level when the skills, competencies, and knowledge for a particular MOS have been acquired. The MOS may be awarded (1) following successful completion of a period of supervised on-the-job training (reflected on the individual's set of orders) or (2) following successful completion of an MOS-producing course (reflected on a Course Completion Certificate).

Subsequently, an individual is periodically evaluated to determine whether he or she has *maintained* the MOS skills, competencies, and knowledge.

The following list traces the evaluation process from October 1973 to the present:

- **October 1973–December 1976. The Enlisted MOS Evaluation Score.** Until January 1977, the Army's Enlisted Evaluation System comprised a written examination (and in some MOS's, a performance examination such as

typing or musical instrument performance) and the supervisor's rating of the soldier's job performance. The written examination was a 125-item, multiple-choice test that covered all major areas of skill-level proficiency. On the supervisor's rating, or Enlisted Evaluation Report (EER) and Senior Enlisted Evaluation Report (SEER), the soldier is rated on a wide range of characteristics and traits.

The score that resulted from the application of the Enlisted Evaluation System was normally a composite score, consisting of the score on the written MOS test, the score from the supervisor's rating of job performance on the Enlisted Efficiency Report (EER), and the score on the performance test, if one was required. Composite MOS evaluation scores ranged from a low of 40 to a high of 160, with the minimum qualification score set at 70.

- **January 1977–July 1983. The SQTs.** The Skill Qualification Tests assess the soldier's occupational proficiency through a combination of a hands-on performance evaluation, a written test, and the supervisor's performance certification of specific tasks. Development of the SQTs is based on an analysis of critical skills required for proficiency in a given MOS skill level. The test is used for soldiers to requalify in their assigned skill level. They requalify in their skill level by achieving the verified minimum score for the particular MOS. SQTs were not developed for pay grades E-8 and E-9. During this period, the tests were not standardized, and ACE suggests using the scores (60 or above) in conjunction with EERs/SEERs.

EER/SEER. Due to the suspension of the use of MOS Evaluation Tests in December 1976 and the gradual phasing-in of SQTs, some soldiers have been evaluated solely on the basis of EER/SEERs. An "EER-only" enlisted MOS evaluation score will not be a composite score and will not include a score from a standardized examination. See Step 2 in How to Find and Use MOS Exhibits for more information on EERs and SEERs.

- **August 1983–October 1991. An Improved SQT.** After August 1983, the procedures for selecting the skills to be measured on each SQT were standardized and were being applied uniformly to the new test edition. These new procedures produced tests that consistently sampled skills that were representative of the MOS and only of the MOS. This standardization overcame two of ACE's prior concerns: The original SQTs tested general military-specific items (e.g., maintenance of firearms) as well as MOS-specific items, and they used test items in both the skill level being tested as well as those in the next higher skill level. The revised SQT tested only MOS-related competencies and only those at the current skill level.

The SQT was a major component in a soldier's initial MOS certification and in the annual recertification process. Those who failed had to retake the test the fol-

lowing year. Failing the test two years in a row resulted in either losing the MOS or having the skill level reduced.

Passing the SQT was one of several criteria used in promotion decisions. Other factors considered were training and schooling records, supervisor's ratings, leadership activities, and awards and citations. The Army set a score of 60 to indicate that MOS proficiency standards were met.

Supervisor's Ratings. If SQT score is not available, refer to EERs, SEERs, and NCO Evaluation Reports. (See Step 2 in How to Find and Use MOS Exhibits.)

• **October 1991–September 1993. Self-Development Tests.** The SQT was replaced by the Self-Development Tests (SDT) for Skill Levels 20–40. The SDT was phased in gradually during this time period and was not reviewed by ACE during its pilot stage. *NCO Evaluation Reports (DA Form 2166-7) should be used to document MOS proficiency during this time period.* In Part IV, check for a success rating (meets standards) or an excellence rating (exceeds standards) in Sections b, d, and f. In Part V, determine that an overall rating of "fully capable" or "among the best" has been achieved. There is no longer Army formal assessment for Skill Level 10 personnel.

• **October 1993–February 1995. Self-Development Tests.** The SDT received ACE's endorsement for use as an indicator of MOS proficiency. Credit may now be awarded for enlisted MOS's at skill levels 20–40 when an SDT score of 70 percent or greater is achieved. SDT scores will be reported on the AARTS transcript and on the Individual Soldiers Report (ISR).

Soldiers in Skill Level 10 (paygrades E-1 through E-4) are not included in the SDT system and do not receive evaluation reports. Promotion from paygrades E-1 through E-4, approved by the commanding officer, is automatic. There are no official Army documents verifying MOS proficiency at this level.

• **March 1995–Present** The Army discontinued offering the SDT as of February 1995. ACE looked into the possibility of using NCOERs as the sole indicator of MOS proficiency. A feasibility study was conducted at four Army installations. It was found that while the NCOER is an indicator of competency in management skills, it falls short as an indicator of technical competence.

Further study led to the following interim policy:

After 3/95, only soldiers in skill levels 30, 40, and 50 will be eligible for management credit based on the NCOER. They will also be eligible to receive the technical credit recommended for the preceding skill level.

The MOS exhibits in this Guide have been modified to reflect this. Once further evaluations are completed and sufficient data are gathered, ACE will decide whether to make this policy a permanent one, to modify it, or to suspend it. Further information will appear in subsequent *Guide Handbooks*, the *DANTES Bulletin*, and the *Center Update*.

ACE's criteria for evaluating an occupational system hold that the system must be codified, adequately

described, and provide for the assessment of the individual. Since these criteria are no longer met by the Army, *ACE is unable to provide credit recommendations for Skill Level 10.* However, *ACE will continue to provide credit recommendations for Skill Level 10 related courses.* Credit recommendations for courses leading to and related to Skill Level 10 such as basic training, advanced individual training (AIT), and other Army courses taken by Skill Level 10 soldiers may be found in the *Guide*.

Although the Skill Level 10 MOS recommendations are no longer be provided, descriptions will continue to be a part of the MOS exhibit, since MOS skill level progression begins with Skill Level 10. ACE recommends that an institution wishing to grant credit for Skill Level 10 do so on the basis of an individualized assessment of the student.

ARMY WARRANT OFFICER MOS's

The following paragraphs provide background information on Army warrant officer MOS's and describe the warrant officer MOS classification system and the procedures used by the Army to select warrant officers and evaluate their MOS skills and knowledge.

The Army Warrant Officer MOS Classification System

Army warrant officers are highly skilled technicians. They are normally assigned to middle management or administrative positions that require highly specialized or technical skills and knowledge, and the supervision of enlisted technical specialists.

The warrant officer MOS classification system currently includes approximately 76 MOS's grouped into 16 career fields. Each warrant officer MOS represents a set of duties and qualifications that are highly consistent from one duty assignment to another.

Warrant officer MOS's are normally identified by *at least* four characters (three numbers and a letter, e.g., 214E). Unlike enlisted MOS's, warrant officer MOS's consist of four characters, not three, and do not have skill levels.

A warrant officer's occupational qualifications may be expressed with as many as nine characters, but because the last five characters indicate special qualifications that are variable, the learning they represent is not evaluated. Only the skills, competencies, and knowledge represented by the *first four characters* are evaluated by ACE. The fifth character, a number or a letter, designates a Special Qualification Identifier (SQI); when a warrant officer has not been awarded an SQI, the fifth character is zero ("0"). The sixth and seventh characters (a number and a letter) are an Additional Skill Identifier (ASI) that relates a specific occupational skill or item of equipment to an MOS. The eighth and ninth characters represent competency in a specific foreign language.

Users may wish to conduct an individual assessment to grant credit for the additional learning represented by the last five characters. Because these additional characters are frequently awarded on the basis of successful comple-

tion of formal courses, the user may refer to the appropriate formal course recommendations in the *Guide*.

There are four grades of warrant officers: Warrant Officer, W-1 (WO1); Chief Warrant Officer, W-2 (CW2); Chief Warrant Officer, W-3 (CW3); and Chief Warrant Officer, W-4 (CW4). The grades reflect rank and do not signify differences in job duties.

Warrant Officer Selection and Evaluation

The procedures used in selecting warrant officers and evaluating their MOS skills and knowledge are different from those used for enlisted soldiers.

Selection. Warrant officers are appointed by the Secretary of the Army. Warrant officer vacancies are routinely announced, and interested persons undergo a competitive application process. Most applicants have had Army enlisted service experience, but such experience is not required.

To qualify for appointment, applicants must meet several criteria. For ACE purposes, the relevant criteria are:

1. Achieve a standard score of 110 or higher on the Aptitude Area General Technical Test of the Army Classification Battery or the Army Qualification Battery (this score is also required for commissioned officer applicants).
2. Demonstrate understanding of and proficiency in the English language.
3. Have sufficient education, technical training, and practical experience to ensure outstanding technical ability in the MOS for which application is being made.
4. Be a high school graduate or the equivalent and, when the MOS requires more than a high-school-level education, meet the additional education requirement for the specific MOS. (Two years of college or the equivalent is the desired goal for Regular Army warrant officers.)

Selected candidates must successfully complete a warrant officer candidate course before being appointed.

Evaluation. Under the present evaluation system, the normal procedure is for each warrant officer to be evaluated at least once a year. The evaluation is conducted by officers who serve as rater and senior rater. Each performs independently. The rater, the warrant officer's immediate supervisor, completes the full evaluation report. The senior rater, the officer who supervises the rater, ensures that the evaluation report has been accurately and properly completed and adds comments and a rating of the rated warrant officer.

Warrant officer evaluations focus on technical competence in the MOS. Raters assign adjectival and numerical ratings for each of several important duty areas.

The ratings are recorded on the Officer Evaluation Report (OER)(DA Form 67-8), which also contains a description of the specific functions, duties, and tasks that the rated warrant officer is required to perform during the

assignment covered by the OER. Each report provides an appraisal of the rated warrant officer's professional attributes, quality of performance, and potential demonstrated during a specific period while in a particular duty assignment. Complete files of each warrant officer's OERs are maintained at the U.S. Total Army Personnel Command (PERSCOM), where all OERs are reviewed for accuracy and completeness. (See Appendix B; for sample OER.)

ACE OCCUPATION EVALUATION SYSTEM

The ACE evaluation system for MOS's has three major components: the selection of evaluators, the materials required for evaluation, and the procedures and guidelines evaluators use in reaching decisions and making recommendations.

Selection of Evaluators

Nominations for evaluators are requested from postsecondary institutions, professional and disciplinary societies, education associations, and regional accrediting associations.

The criteria for selection of MOS evaluators are as follows:

1. The area of an evaluator's competence will closely approximate the area of the training to be evaluated.
2. Preference will be given to candidates with five or more years of postsecondary teaching or administrative experience, including curriculum development.
3. Preference will be given to candidates who are generally receptive to the recognition of learning that occurs in a variety of settings.

An evaluator candidate is interviewed by a staff member to determine whether the individual meets the selection criteria.

An effort is also made to obtain a diverse geographic representation on the team. Subject-matter specialists represent a variety of postsecondary institutional types.

Materials Required for Evaluation

In order to make a recommendation, evaluators must first identify the skills, competencies, and knowledge associated with a given warrant officer or enlisted MOS. The materials relevant to the evaluation of each warrant officer MOS or enlisted MOS skill level are made available to staff members and evaluators by the Army. Materials include the official Army MOS manual which describes the duties and qualifications for each MOS; technical manuals, field manuals, and other publications used by enlisted soldiers and warrant officers in the day-to-day performance of their duties and by enlisted soldiers to prepare for their MOS evaluation tests; enlisted MOS skill-level evaluation tests; and study guides that outline the proficiency requirements for each enlisted MOS skill level. Additional information is obtained by

observing and interviewing enlisted soldiers and warrant officers on-the-job during site visits to Army installations.

The Evaluation Process

Evaluators identify the skills, competencies, and knowledge required of warrant officers who are qualified in a given MOS and enlisted soldiers who are qualified in a given MOS skill level and relate that demonstrated learning to the same attributes acquired by students who have completed a comparable postsecondary course or curriculum. Because the evaluations are based on a comparison of learning outcomes, the amount of time a given enlisted soldier or warrant officer may have spent acquiring MOS proficiency is not taken into consideration. The emphasis is on translating the learning demonstrated through MOS proficiency into terms used in formal civilian postsecondary education systems to recognize the same learning. This reflects the belief of the Commission that the value of learning is not dependent on where or how the learning occurs.

Evaluation teams are assigned three tasks in the evaluation process: to identify the learning represented by proficiency in the MOS by reviewing the written materials and by observing warrant officers or soldiers performing in the MOS and interviewing them and their supervisors; to prepare a description of the duties, skills, competencies, and knowledge required for each specialty; and to make recommendations for each specialty level based on discussion and consensus.

Throughout the evaluation process, evaluators exercise professional judgment in applying the evaluative criteria and procedures. This position reflects the Commission's belief that sound educational evaluation is more dependent on professional judgment and expertise than on rigid application of criteria.

The Commission continually reviews its criteria and procedures. Evaluators are encouraged to provide feedback and recommendations for consideration by the Commission.

CREDIT CATEGORIES

Educational credit is used by postsecondary institutions to quantify and record a student's successful completion of a unit of study. Postsecondary education consists of courses and programs of instruction for persons who are high school graduates or the equivalent, or who are beyond compulsory school age. ACE evaluators utilize the following categories of educational credit when formulating credit recommendations:

Vocational Certificate. This category describes course work of the type normally found in certificate or diploma (nondegree) programs that are usually a year or less in length and designed to provide students with occupational skills. Course content is specialized, and the accompanying shop, laboratory, or similar practical components emphasize procedural more than analytical skills.

Lower-Division Baccalaureate/Associate Degree. This category describes course work of the type normally found in the first two years of a baccalaureate program and in programs leading to the associate degree. The instruction stresses development of analytical abilities at the introductory level. Verbal, mathematical, and scientific concepts associated with an academic discipline are introduced, as are basic principles. Occupationally oriented courses in this category are normally designed to prepare a student to function as a technician in a particular field.

Upper-Division Baccalaureate. This category describes courses of the type found in the last two years of a baccalaureate program. The courses involve specialization of a theoretical or analytical nature beyond the introductory level. Successful performance by students normally requires prior study in the area.

Graduate Degree. This category describes courses with content of the type found in graduate programs. These courses often require independent study, original research, critical analysis, and the scholarly and professional application of the specialized knowledge or discipline. Students enrolled in such courses normally have completed a baccalaureate program.

Semester Hours

Credit recommendations for courses are not derived by simple arithmetic conversion. Evaluators exercise professional judgment and consider only those competencies that can be equated with civilian postsecondary curricula. Intensive courses offered by the military do not necessarily require as much outside preparation as many regular college courses. Evaluators consider the factors of pre- and post-course assignments, prior work-related experience, the concentrated nature of the learning experience, and the reinforcement of the course material gained in the subsequent work setting.

The MOS recommendations are based on the skills, competencies, and knowledge gained, as demonstrated through proficiency in a given enlisted MOS skill level or in a given warrant officer MOS, without reference to how much time elapsed during the learning process. The semester hour is used as a standard to express how many semester hours of appropriate course work a student would normally complete to attain the same learning outcomes or attest to the same level of competency.

Credit recommendations are expressed in semester credit hours. In determining semester hour recommendations, evaluators will be guided by, but not restricted to, the following standard definitions:

1. One semester credit hour for the equivalent of 15 hours of classroom contact plus 30 hours of outside preparation; or
2. One semester credit hour for the equivalent of 30 hours of laboratory work plus necessary outside preparation, normally expected to be 15 hours; or

3. One semester credit hour for the equivalent of not less than 45 hours (contact hours) of shop instruction.

Other Resources

The Defense Activity for Non-Traditional Education Support (DANTES) maintains the educational records of the servicemembers who have completed DANTES Subject Standardized Tests (SSTs), CLEP examinations, and GED tests.

The results of courses and tests that were taken under the auspices of USAFI (United States Armed Forces Institute, disestablished 1974), which carry academic credit and were submitted prior to July 1, 1974, are available from:

Educational Testing Service
Contract Representative for DANTES
P.O. Box 6605
Princeton, NJ 08541-6605

A \$10.00 fee is charged for *each* transcript requested. There is no charge for transcripts sent to military Test Control Officers (TCOs) for counseling purposes.

The results of DANTES Subject Standardized Tests (DSSTs) and CLEP tests that were taken under the auspices of DANTES after July 1, 1974, are available from:

Educational Testing Service
P.O. Box 6604
Princeton, NJ 08541-6604

An \$8.00 fee is charged for *each* transcript requested. A transcript may include any or all DSST and CLEP examinations taken while in the military. There is no charge for

transcripts sent to military Test Control Officers (TCOs) for counseling purposes.

In order to provide a timely response for transcript requests, Transcript Request Forms for USAFI transcripts and DSST/CLEP transcripts are available by calling 800-257-9484. Transcript request fees may be paid by check or money order payable to ETS-DANTES. Payment may also be made with a MasterCard or Visa.

Official GED test reports for 1) military personnel tested overseas after September 1974, 2) Coast Guard personnel tested after January 1975, 3) active duty military personnel tested after October 1, 1985, and 4) individuals tested by the Veteran's Administration after October 1, 1989, may be obtained from Manager, Military Testing, GED Testing Service, American Council on Education, One Dupont Circle, Suite 250, Washington, DC 20036-1163.

Military personnel tested before September 1974 and Coast Guard personnel tested before January 1975 may obtain official GED test reports from DANTES Contract Representative, CN 6605, Princeton, NJ 08541-6605. Call toll free 1-800-257-9484.

In addition, credit recommendations for USAFI courses and tests and for DSSTs are available from ACE and are published in the *Handbook to the Guide*.

Appendix B

Sample Records

- DD Form 295 (November 1986) Application for the Evaluation of Learning Experiences During Military Service, page B-2
- DD Form 214 (July 1979) Certificate of Release or Discharge from Active Duty, page B-6
- Sample Order Related to MOS, page B-7
- Sample Course Completion Certificate, page B-8
- DA Form 2-1 (January 1973), page B-9
- DA Form 2166-5 (July 1975) Enlisted Evaluation Report, page B-13
- DA Form 2166-5A (July 1975) Senior Enlisted Evaluation Report, page B-15
- DA Form 2166-6 (October 1981) Enlisted Evaluation Report, page B-17
- DA Form 2166-7 (September 1987) NCO Evaluation Report, page B-19
- DA Form 2166-7-1 (August 1987) NCO Counseling Checklist/Record, page B-21
- Individual Soldier's Report (ISR), page B-25
- DA Form 67-8 (September 1979) U.S. Army Officer Evaluation Report, page B-26
- DA Form 67-8-1 (September 1979) Officer Evaluation Report Support Form, page B-28
- DA Form 4037 (July 1982) Officer Record Brief, page B-30
- DA Form 5454-R (April 1989) Request for Army/American Council on Education Registry Transcript, page B-31
- Army/American Council on Education Registry Transcript, page B-32

**APPLICATION FOR THE EVALUATION OF
LEARNING EXPERIENCES DURING MILITARY SERVICE**

(Date)

TO: (Name and address of educational
institution, agency, or employer)

EVALUATION REQUEST FOR:

(Name of Applicant)

(Social Security Number)

ATTENTION:

Dear Official:

The applicant named above has requested that the attached summary of educational achievements, accomplished while in the Armed Forces of the United States, be forwarded to you for review and evaluation.

The American Council on Education publishes the *Guide to the Evaluation of Educational Experiences in the Armed Services* which includes postsecondary credit evaluations of military learning experiences. The 1954 edition of the *Guide* contains recommendations for formal courses offered by the Armed Services during the period 1941 to 1954. The current edition contains credit recommendations for (1) military training courses offered after 1954; (2) Army military occupational specialties (MOS's) for enlisted personnel and warrant officers; (3) ratings held by Navy and Coast Guard enlisted personnel; and (4) occupational designators held by Navy and Coast Guard warrant officers and Navy limited duty officers. In addition to recommendations for semester hour credits, some Army enlisted MOS's and Navy ratings also have recommendations for advanced standing in apprentice training programs.

The American Council on Education maintains an advisory service to provide credit recommendations for courses and tests, MOS's, ratings, and other occupations evaluated after the publication date of the current *Guide*. Credit recommendations are provided to officials of schools, state departments of education or other educational institutions, employers, apprenticeship training directors, labor union and trade association officials, military education officers and applicants. *Credit recommendations are not provided to officials at the applicant's request.* Authorized persons may write directly to the Military Evaluations Program Office, American Council on Education, One Dupont Circle, N.W., Washington, D.C. 20036-1193.

The evaluation of this applicant's learning experiences, as well as any guidance which you may provide, should be sent directly to the applicant at the address shown in block 6 on page 3. Your interest is genuinely appreciated.

Sincerely,

(Education Officer)

Privacy Act Statement

- AUTHORITY:** 5 USC 301 and EO 9397, November 1943 (SSN).
- PRINCIPAL PURPOSE:** To permit authorized agencies to evaluate military experience for academic placement and/or employment.
- ROUTINE USES:** Used at the request of the individual for the evaluation of military training.
- DISCLOSURE:** Voluntary; however, failure to provide requested information impedes the evaluation process by educational institutions or potential employers.

INSTRUCTIONS TO APPLICANT

DD Form 295 is for your convenience in applying for evaluation of your educational experiences during military service. Give as much detailed information as possible. Include additional information on separate sheets, if necessary.

You are encouraged to write a preliminary letter to the school or agency concerned, explaining your interest in its evaluation of your records for the continuance of your education. Training, correspondence study, or special experiences not described on this form, which you believe would be of interest to those reviewing your case, should be included in this letter.

The applicant should:

- a. Complete items 1 through 15.
- b. If you have attended college or completed any college correspondence courses, ask that college to send a transcript to the Registrar of the evaluating agency that this form is addressed to. **DO NOT LIST ANY COLLEGE OR UNIVERSITY COURSES ON THIS FORM.**
- c. If you have completed any college-level standardized examinations for credit, such as USAFI or DANTES Subject Standardized Tests, or CLEP, ask the appropriate agency to send a score report to the Registrar of the evaluating agency that this form is addressed to. **DO NOT LIST ANY EXAMINATIONS ON THIS FORM.**
- d. After completion, submit this DD Form 295 to the Certifying Officer.

INSTRUCTIONS TO CERTIFYING OFFICER

(Custodian of Personnel Records)

DD Form 295 is intended to provide factual information that schools and other evaluating agencies require for evaluation of the applicant's educational achievement. **CERTIFYING OFFICERS WILL NOT MAKE RECOMMENDATIONS REGARDING CREDIT TO BE AWARDED.**

The certifying officer should:

- a. Complete items 16 through 18.
- b. Insure that the information provided in Section II is documented in the applicant's Service Record. Names of schools or courses should not be abbreviated.
- c. Send this DD Form 295 to the Education Officer.

INSTRUCTIONS TO EDUCATION OFFICER

The education officer should:

- a. Complete item 19.
- b. Counsel the service member.
- c. Complete page 1. The name and address of the evaluating agency should be the same as that listed at the top of page 3 of this form.

PAGE 1 IS IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THE LETTER TO BE WRITTEN TO THE EVALUATING AGENCY BY THE APPLICANT.

- d. Mail DD Form 295 directly to the designated evaluating agency.

APPLICATION FOR THE EVALUATION OF LEARNING EXPERIENCES DURING MILITARY SERVICE

TO (Name and address of educational institution, agency, or employer)

SECTION I - TO BE COMPLETED BY APPLICANT

1. NAME (Last, First, Middle Initial) 2. GRADE/RANK OR RATING 3. SOCIAL SECURITY NO. 4. PREVIOUS SERVICE NUMBER(S)

5. PRESENT BRANCH OF SERVICE (Includes National Guard and Reserve components)

☐ a ARMY ☐ b NAVY ☐ c AIR FORCE ☐ d MARINE CORPS ☐ e COAST GUARD

6. APPLICANT'S MAILING ADDRESS FOR REPLY FROM EDUCATIONAL INSTITUTION

7. DATE OF BIRTH

8. PERMANENT HOME ADDRESS

CIVILIAN EDUCATION

9. HIGHEST GRADE OF SCHOOL COMPLETED (X one)

☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12

10. HIGHEST YEAR OF COLLEGE COMPLETED (X one)

☐ a. NONE ☐ b. FRESHMAN ☐ c. SOPHOMORE ☐ d. JUNIOR ☐ e. SENIOR

11. COLLEGE DEGREE EARNED (X if applicable)

☐ a. ASSOCIATE ☐ b. BACHELOR

12. EDUCATIONAL INSTITUTION LAST ATTENDED

a. NAME

b. MAILING ADDRESS

13. USAFI COURSES COMPLETED IN SERVICE (Prior to 1974)

(The applicant should request a transcript for all courses to be forwarded directly to the evaluating agency.)

a. CATALOG NUMBER AND TITLE OF COURSE (If no courses were taken, print NONE)	b. METHOD OF STUDY (Correspondence, self-teaching, locally conducted classes, etc.)	c. LOCATION WHERE COMPLETED	d. DATE COURSE COMPLETED
(1)			
(2)			
(3)			
(4)			
(5)			
(6)			
(7)			
(8)			

14. MILITARY CORRESPONDENCE COURSE COMPLETED

(The applicant should attach a copy of the course completion letter or certificate.)

a. COURSE NAME (If no courses were taken, print NONE)	b. COURSE SPONSOR (AIPD, MCI, ECI, CGI)	c. DATE COURSE COMPLETED
(1)		
(2)		
(3)		
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		

15. APPLICANT CERTIFICATION: I have read the Privacy Act Statement on Page 2.

a. SIGNATURE

b. DATE SIGNED

SECTION II - TO BE COMPLETED BY CERTIFYING OFFICER
(Read Instructions on Page 2 before completing this page)

16. FORMAL SERVICE SCHOOLS ATTENDED (If longer than one week) (If none, print NONE)				19. ACE GUIDE COURSE OR OCCUPATION IDENTIFICATION NO. (To be filled out in Education Center)		
a. COURSE TITLE	b. MILITARY COURSE NUMBER	c. NAME OF SCHOOL, CITY, STATE	d. DATE ENTERED	e. LENGTH ¹ (in weeks)	f. DATE COMPLETED	g. FINAL MARK AND/OR CLASS STANDING ²
(1)						
(2)						
(3)						
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

17. MILITARY OCCUPATIONAL HISTORY				
a. MILITARY SPEC CODE (MOS, AFSC, Rate, etc.) ³	b. MILITARY OCCUPATIONAL TITLE (Do Not Abbreviate)	c. DATES HELD From (Mo/Yr) To (Mo/Yr)		d. MOS/SQT SCORE (For Army Enlisted Personnel ⁴)
(1)				
(2)				
(3)				

NOTES:
¹ Print SP if course length was self paced.
² If information is available, give grade received. If class standing is shown, give number in class, e.g., 10 in 241.
³ List most recent skill levels or grade.
⁴ MOS/SQT Evaluation Score and Date of evaluation.

THIS APPLICATION MUST BE SIGNED BY AN OFFICER OR A DULY AUTHORIZED NONCOMMISSIONED OFFICER.
 I certify that the information contained herein has been compared with official records, and that this information is correct.

18. CERTIFYING OFFICER	
a. NAME (Print or Type)	c. MILITARY ADDRESS (Include ZIP Code)
d. SIGNATURE	e. DATE SIGNED

CAUTION NOT TO BE USED FOR
IDENTIFICATION PURPOSES

THIS IS AN IMPORTANT RECORD
SAFEGUARD IT

ANY ALTERATIONS IN SHADED
AREAS RENDER FORM VOID

[illegible]

***** SAMPLE COPY *****

FOR IMMEDIATE DELIVERY TO:

DEPARTMENT OF THE ARMY
HEADQUARTERS US ARMY ARMOR CENTER AND FORT KNOX
Fort Knox, Kentucky 40121

ORDERS XX-X

4 May 1990

DOE, JOHN 000-00-000 CSM Unit of Assignment (UIC Code) Ft Knox
KY 40121

The following MOS action is directed.

Awarded: P19E10B800; S54E100000

Withdrawn: P54E100000

Effective date: 4 May 1990

Reclassification control number: Not applicable

Additional instructions: Authority: Paragraph xx-x, AR xxx-xxx

Format: 310

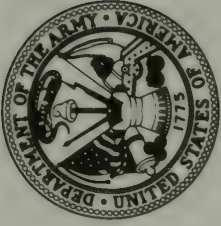
FOR THE COMMANDER:

DISTIRBUTION:
Orders Unit (4)
Indiv (3)
Rec Sec (1)
Unit of Asg (3)

GI JOE
LTC, AG
Adjutant General

HQPERSCOM (Branch) (1 ea Indiv)

***** SAMPLE COPY *****



DEPARTMENT OF THE ARMY
CERTIFICATE OF TRAINING

This is to certify that

has successfully completed

Given at _____

PERSONNEL QUALIFICATION RECORD – PART II

[illegible]

DA Form 2166-5 1 Jul 75 This form, together with DA Form 2166-5A, 1 Jul 75, replaces DA Form 2166-4, 1 Jul 70, which is obsolete.

RATED SOLDIER'S LAST NAME AND SSN			
PART II CONTINUED			
I. CAREER DEVELOPMENT (RECOMMENDATIONS ON SCHOOLING AND ASSIGNMENTS)			
J. 1. COMMENTS ARE MANDATORY TO JUSTIFY RATINGS IN PART II AS FOLLOWS:			
a. BLOCK E SCORE BELOW 10 OR OVER 40, BLOCK F SCORE BELOW 6 OR OVER 42, BLOCK G SCORE BELOW 10 OR OVER 22, OR BLOCK D IF SOLDIER DOES NOT SUPPORT ARMY'S EQUAL OPPORTUNITY PROGRAM b. INDORSER WHO CHECKS BLOCK II B.			
2. REMARKS OTHERWISE OPTIONAL.			
RATER			
INDORSER			
PART III RATER AUTHENTICATION			
A. ORGANIZATION AND DUTY ASSIGNMENT		B. NAME AND GRADE	C. DATE
		D. SIGNATURE	
PART IV INDORSER AUTHENTICATION			
A. ORGANIZATION AND DUTY ASSIGNMENT		B. NAME AND GRADE	C. DATE
		D. SIGNATURE	
PART V SOLDIER AUTHENTICATION			
A. I HAVE SEEN A COPY OF THIS REPORT COMPLETE THROUGH ACTION BY THE INDORSER. I HAVE BEEN COUNSELED CONCERNING THE REPORT.		B. NAME AND GRADE	C. DATE
		D. SIGNATURE	
PART VI REVIEWER AUTHENTICATION			
A. SOLDIER WAS RATED BY CORRECT RATER AND INDORSER. NO FURTHER ACTION REQUIRED. <input type="checkbox"/>			
MY REVIEW RESULTS IN ACTION INDICATED BY INCLOSURES. <input type="checkbox"/>			
B. ORGANIZATION AND DUTY ASSIGNMENT		C. NAME AND GRADE	D. DATE
		E. SIGNATURE	
PART VII MILPO CERTIFICATION			
A. DATE REPORT ENTERED ON DA FM 2-1:		C.	D.
B. SOLDIER'S COPY: GIVEN TO SOLDIER <input type="checkbox"/> FORWARDED TO SOLDIER <input type="checkbox"/>		MILPO SIGNATURE	
MAILED TO SOLDIER <input type="checkbox"/> CERTIFIED MAIL NO _____			
		UTC	

SENIOR ENLISTED EVALUATION REPORT (AR 600-200)															C. SSN																								
For preparation, see DA Pamphlet 623-1.															<div style="display: flex; justify-content: space-between;"> <div> 2 0 1 1 3 4 5 6 7 8 9 3 0 1 2 3 4 5 6 7 8 9 4 0 1 2 3 4 5 6 7 8 9 5 0 1 2 3 4 5 6 7 8 9 6 0 1 2 3 4 5 6 7 8 9 7 0 1 2 3 4 5 6 7 8 9 8 0 1 2 3 4 5 6 7 8 9 9 0 1 2 3 4 5 6 7 8 9 </div> <div> 1 2 3 4 5 6 7 8 9 </div> </div>																								
PART I PERSONAL DATA																																							
A. GRADE (ABBR) NAME (LAST) (FIRST) (MI) SSN										B. TYPE OF REPORT																													
D. ORGANIZATION AND STATION HHT, 2d Armd Cav Regt, APO NY 09093										INIT <input type="checkbox"/> ANL <input type="checkbox"/> CR <input type="checkbox"/> SP <input type="checkbox"/>					I. NONRATED PERIOD																								
										OTHER <input type="checkbox"/>																													
E. PMOSC		F. DMOSC		G. SMOSC		H. PERIOD OF REPORT							NO. OF MONTHS _____																										
11E50		11E50		11Z50		MO. JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC BEGIN YR 74 75 76 77 78 79 80 81 82 83 84 85 END YR 74 75 76 77 78 79 80 81 82 83 84 85																																	
J. DUTY POSITION TITLE															REASON CODES _____																								
Intelligence Sergeant																																							
AUTH PAY GR E8																																							
PART II RATINGS																																							
A. BRIEF DESCRIPTION OF DUTIES MOIC of the Regimental S-2 Section, responsible for assisting the S-2 in all regimental level intelligence functions to include combat intelligence, personnel document, and physical security.																																							
B. INDORSER HAS NOT OBSERVED AND CAN NOT RATE SOLDIER <input type="checkbox"/>					C. REPORT BASED ON: DAILY CONTACT <input type="checkbox"/> FREQ OBSN <input type="checkbox"/> INFREQ OBSN <input type="checkbox"/> REPT & REC <input type="checkbox"/>					D. SOLDIER SUPPORTS THE ARMY'S EQUAL OPPORTUNITY PROGRAM YES <input type="checkbox"/> NO <input type="checkbox"/>																													
E. PERFORMANCE QUALITIES					RANKS WITH SUPERIOR TO MOST					EXCEEDS OR MEETS DUTY REQUIREMENTS					NEEDS IMPROVEMENT					SCORE																			
					5 4 3 2 1 0 R I										5 4 3 2 1 0 R I																								
1. Anticipates requirements and actively pursues methods of improving duty performance. (Initiative)					R <input type="checkbox"/> I <input type="checkbox"/>					5 5					1. Is clear and to the point in conveying information and in giving directions. (Communications)					R <input type="checkbox"/> I <input type="checkbox"/>					5 5														
2. Is physically fit, as required, for MOS grade during combat. (Physical Condition)					R <input type="checkbox"/> I <input type="checkbox"/>					5 5					2. Promotes personal and professional growth of subordinates through personal interest in their problems. (Counseling)					R <input type="checkbox"/> I <input type="checkbox"/>					5 5														
3. Takes pride in high standards of dress, grooming, and military manner. (Military Bearing)					R <input type="checkbox"/> I <input type="checkbox"/>					5 5					3. Provides effective instruction (formal or informal) to improve the professional competence of subordinates. (Training)					R <input type="checkbox"/> I <input type="checkbox"/>					5 5														
4. Behavior on and off duty is in accordance with highest Army standards. (Personal Conduct)					R <input type="checkbox"/> I <input type="checkbox"/>					5 5					4. Selects best course of action after weighing the alternatives. (Decision Ability)					R <input type="checkbox"/> I <input type="checkbox"/>					5 5														
5. Is dependable and conscientious in fulfilling obligations. (Responsibility)					R <input type="checkbox"/> I <input type="checkbox"/>					5 5					5. Is fair, inspires confidence, accepts guidance, and has earned respect. (Relationships with Others)					R <input type="checkbox"/> I <input type="checkbox"/>					5 5														
6. Is well informed on the scope of knowledge required for assigned duties. (Technical Competence)					R <input type="checkbox"/> I <input type="checkbox"/>					5 5					TOTALS 25 25																								
TOTALS 30 30										H. ADVANCEMENT POTENTIAL - If I had the authority and responsibility to do so, I would: (Disregard time in grade requirements.)																													
G. DEMONSTRATED OVERALL PERFORMANCE										Promote Immediately					Promote Ahead of Peers					Promote With Peers					Not Promote					Data Continued Active Duty					S C O R E				
										R <input type="checkbox"/> I <input type="checkbox"/>					0 0 0					0 0 0					0 0 0					2					0				
RATER										30 28					26 22 18					14 10 6																			
										1 1 1					0 0 0					0 0 0																			
INDORSER										40 38 36 33 30 27					23 20 17 14					10 8 6 3 1					40														
										30 25 40 30					125					125					250					125									
										SUM OF SCORES										250																			

SOLDIER'S LAST NAME AND SSN PRESTON 265-52-6915	
PART II CONTINUED	
1 CAREER DEVELOPMENT (RECOMMENDATIONS ON SCHOOLING AND ASSIGNMENTS)	
RECOMMEND FOR	
CSM (E-8 & E-9) 1SG (E-7)	
R <input type="checkbox"/> R <input type="checkbox"/>	
I <input type="checkbox"/> I <input type="checkbox"/>	
SGM Academy at earliest practical date.	
2 COMMENTS ARE MANDATORY TO JUSTIFY RATINGS IN PART II AS FOLLOWS:	
a. BLOCK E SCORE BELOW 6 OR OVER 24, BLOCK F SCORE BELOW 5 OR OVER 20, BLOCK G SCORE BELOW 6 OR OVER 36, BLOCK H SCORE BELOW 6 OR OVER 14, OR BLOCK D IF SOLDIER DOES NOT SUPPORT ARMY'S EQUAL OPPORTUNITY PROGRAM	
b. INDORSER WHO CHECKS BLOCK II B.	
2 REMARKS OTHERWISE OPTIONAL.	
RATER	MSG Preston is one of the most conscientious and dedicated soldiers whom I have ever met. He consistently accomplishes his duties in an exemplary manner. Indicative of this was his performance during field training exercises, specifically Reforger 75. He was responsible for receiving, compiling, and forwarding to higher, all battlefield intelligence. His efforts greatly assisted the Regiment in accomplishing its mission in an outstanding manner. MSG Preston possesses drive, initiative, and stamina. He is consistently striving to improve himself by enrolling in college courses during his off-duty time. His military leadership principles, traits, and personal conduct and integrity won him the respect and admiration of his subordinates and superiors. MSG Preston's ability to get the job done places him among those at the top of the NCO Corps.
INDORSER	MSG Preston clearly possesses those characteristics which place him in that select group of truly outstanding NCOs. Placing the needs of the organization first, he accepted reassignment to an area foreign to his previous experience and through personal initiative and enthusiasm rapidly gained the required technical knowledge. Having observed this NCO transition from operations to intelligence with complete ease and total competence, I highly recommend that he be flagged for special consideration in assignments and schooling. An obvious leader, he possesses talents and qualifications far in excess of his contemporaries.
PART III RATER AUTHENTICATION	
A. ORGANIZATION AND DUTY ASSIGNMENT	B. NAME AND GRADE
HHT, 2d Armd Cav Regt Asst S2	C. DATE 12 MAY 76
D. SIGNATURE	
PART IV INDORSER AUTHENTICATION	
A. ORGANIZATION AND DUTY ASSIGNMENT	B. NAME AND GRADE
HHT, 2d Armd Cav Regt Regimental S2	C. DATE 12 MAY 76
D. SIGNATURE	
PART V SOLDIER AUTHENTICATION	
A. I HAVE SEEN A COPY OF THIS REPORT COMPLETE THROUGH ACTION BY THE INDORSER. I HAVE BEEN COUNSELED CONCERNING THE REPORT.	B. NAME AND GRADE
C. DATE 12 May 76	D. SIGNATURE
PART VI REVIEWER AUTHENTICATION	
A. SOLDIER WAS RATED BY CORRECT RATER AND INDORSER. NO FURTHER ACTION REQUIRED. <input checked="" type="checkbox"/> MY REVIEW RESULTS IN ACTION INDICATED BY INCLOSURES. <input type="checkbox"/>	
B. ORGANIZATION AND DUTY ASSIGNMENT	C. NAME AND GRADE
HHT, 2d Armd Cav Regt Regimental Executive Officer	D. DATE 12 May 76
E. SIGNATURE	
PART VII MILPO CERTIFICATION	
A. DATE REPORT ENTERED ON DA FM 2-1: 2 JUN 1976	C. TCO Supv. Nbg. RPO
B. SOLDIER'S COPY: GIVEN TO SOLDIER <input type="checkbox"/> FORWARDED TO SOLDIER <input type="checkbox"/> MAILED TO SOLDIER <input type="checkbox"/> CERTIFIED MAIL NO. _____	MILPO SIGNATURE
TCO FLOAAA UIC	

See Privacy Act Statement in AR 623-205, APPENDIX E.		ENLISTED EVALUATION REPORT (AR 623-205)		Proponent agency for this form is the US Army Military Personnel Center		
PART I. ADMINISTRATIVE DATA						
A. LAST NAME — FIRST NAME — MIDDLE INITIAL			B. SSN	C. RANK (ABBR)	D. DATE OF RANK	
			265-52-6915	CSM	01102	
E. PRIMARY MOSC	F. SECONDARY MOSC	G. UNIT, ORGANIZATION, STATION, ZIP CODE/APO, MACOM				
00Z50	63Z50	HQ, 1st Armor Training Brigade, Ft Knox, Ky 40121-5250 (TC)				
H. CODE/TYPE OF REPORT		I. PERIOD OF REPORT		J. RATED MONTHS	K. NONRATED MONTHS	
3 Change of Rater		FROM YEAR 85 MONTH 01 THRU YEAR 85 MONTH 04 FROM 85 01 THRU 85 04		4		
					L. NONRATED CODES	
PART II. DUTY DESCRIPTION						
A. PRINCIPAL DUTY TITLE: Brigade Command Sergeant Major				B. DUTY MOSC: 00Z50		
C. DESCRIPTION OF DUTIES: Responsible to keep the Commander informed on the morale, esprit and overall condition of the Brigade. Assigns all noncommissioned officers and enlisted personnel assigned to the Brigade. Insures that a viable NCO Development Program is on-going in the Brigade. Helps insure that all units within the Brigade are conducting SQT training. Counsels and provides guidance to enlisted personnel assigned to the Brigade. Acts as advisor to the Commander concerning enlisted matters or any other matters that affect the Brigade mission.						
PART III. EVALUATION OF PROFESSIONALISM AND PERFORMANCE						
RATER	INDORSER	A. PROFESSIONAL COMPETENCE	SCORING SCALE	RATER	INDORSER	B. PROFESSIONAL STANDARDS
5	5	1. Demonstrates initiative.	(High) 5 4 3 2 1 0 (Low)	5	5	1. Integrity
5	5	2. Adapts to changes		5	5	2. Loyalty
5	5	3. Seeks self-improvement.		5	5	3. Moral courage
5	5	4. Performs under pressure.		5	5	4. Self-discipline
5	5	5. Attains results		5	5	5. Military appearance
5	5	6. Displays sound judgment		5	5	6. Earns respect
5	5	7. Communicates effectively.		5	5	7. Supports EO EEO
5	5	8. Develops subordinates		35	35	SUBTOTALS
5	5	9. Demonstrates technical skills.				
5	5	10. Physical fitness				
50	50	SUBTOTALS				
C. DEMONSTRATED PERFORMANCE OF PRESENT DUTY PASS 8410 66/152 YES						
1. Rater's Evaluation: performance during his first four months as Brigade Command Sergeant Major has been one of untiring effort and professional, outstanding performance. His initiatives and organizational abilities contributed significantly to the present high standards of appearance in the 1st Armor Training Brigade. He always provides sound and timely advice on a broad range of issues. His recommendations have been well thought out and appropriate. is in top physical condition and his highly visible participation in all aspects of physical training has set the example for the cadre, NCO and officer. His excellent performance is due mainly to his attention to detail in all aspects of his job and his commitment to perfection. is a community oriented soldier, he and his family are actively involved in numerous organizational and helping activities for the Fort Knox community.						
2. Indorser's Evaluation: has vigorously stepped forward into the 1st Brigade Command Sergeant Major position and thus far has proven to be well suited for the demanding position. During his short tenure, he has become instrumental in the brigade's daily operation; of particular note is his involvement in the brigade's building refurbishing program. His ability to coordinate post agency support with the work effort of six battalions has been a major undertaking which has been superbly executed. He sets the example in all aspects of soldiering for the 1st Brigade cadre.						

PART IV. EVALUATION OF POTENTIAL

Rater's Evaluation: (Place score in applicable box)

40-38

☐Promote ahead
of peers.

37-20

☐

Promote with peers.

19-0

☐

Do not promote.

40-0

☒

E9 Soldiers Only

Comments: potential for higher-level school, assignment, and supervisory responsibility)

is capable of performing as a Command Sergeant Major at any level. Select for division CSM now and the 35 year program as soon as possible.

Indorser's Evaluation: (Place score in applicable box)

40-38

☐Promote ahead
of peers.

37-20

☐

Promote with peers.

19-0

☐

Do not promote.

40-0

☒

E9 Soldiers Only

Comments: potential for higher-level school, assignment, and supervisory responsibility)

Division, Corps CSM potential. A top-notch performer with limitless potential.

PART V. AUTHENTICATION

A. NAME OF RATER (Last, First, MI)

SSN

SIGNATURE

527-38-4625

RANK, ORGANIZATION, AND DUTY ASSIGNMENT

1st Lt, 1st Armor Tng Bde, Ft Knox, Ky 40121-5250 Brigade Commander

DATE

29 Apr 85

Refer to AR 623-205 for requirements to discuss contents of report with the rated soldier.

E. NAME OF INDORSER (Last, First, MI)

SSN

SIGNATURE

020-26-9577

RANK, ORGANIZATION, AND DUTY ASSIGNMENT

SGT HQ, USAARMS, Ft Knox, Ky Assistant Commandant

DATE

10 May 1985

C. NAME OF RATED SOLDIER (Last, First, MI)

I have verified Administrative Data, PART I, and Duty Description, PART II. I have seen this report as prepared by the Rater and Indorser. I understand that my signature does not constitute agreement nor disagreement with their evaluations.

SSN

DATE

000-00-0000

10 May 85

Signature

D. NAME OF REVIEWER (Last, First, MI)

SSN

I have reviewed this report in accordance with

020-26-9577

AR 623-205 on

10 May 1985

Signature

RANK, ORGANIZATION, AND DUTY ASSIGNMENT

SGT HQ, USAARMS, Ft Knox, Ky Asst. Commandant

PART VI. SCORE SUMMARY

PART VII. MILPO CERTIFICATION

RATER SCORE	INDORSER SCORE
85	85
40	40
SUM 125	125

A. SOLDIER'S COPY:

☐

Given to Soldier

(date)

☒

Forwarded to Soldier

17 MAY 1985

(date)

☐

Mailed to Soldier

(date)

B. FORWARDING ADDRESS:

REPORT SCORE
3-1+2

125

C. NO. OF
INC.

0

D. DATE ENTERED
ON DA FORM 2-1

17 MAY 1985

E. MILPO SIGNATURE

F. MILPO

TD02

NCO EVALUATION REPORT						<small>SEE PRIVACY ACT STATEMENT IN AR 623-205, APPENDIX E.</small>		
<small>For use of this form, see AR 623-205, the proponent agency is DCSPER</small>								
PART I - ADMINISTRATIVE DATA								
a. NAME (Last, First, Middle Initial)				b. SSN	c. RANK	d. DATE OF RANK	e. PMOSC	
f. UNIT, ORG., STATION, ZIP CODE OR APO, MAJOR COMMAND						g. REASON FOR SUBMISSION		
h. PERIOD COVERED		i. RATED MONTHS	j. NON-RATED CODES	k. NO. OF ENCL	l. RATED NCO COPY (Check one and Date)		m. PSC Initials	
FROM YY MM	THRU YY MM				1. Given to NCO Date		n. CMD CODE	
					2. Forwarded to NCO		o. PSC CODE	
PART II - AUTHENTICATION								
a. NAME OF RATER (Last, First, Middle Initial)				SSN	SIGNATURE			
RANK, PMOSC/BRANCH, ORGANIZATION, DUTY ASSIGNMENT							DATE	
b. NAME OF SENIOR RATER (Last, First, Middle Initial)				SSN	SIGNATURE			
RANK, PMOSC/BRANCH, ORGANIZATION, DUTY ASSIGNMENT							DATE	
c. RATED NCO I understand my signature does not constitute agreement or disagreement with the evaluations of the rater and senior rater. Part I height/weight and APFT entries are verified I have seen this report completed through Part V I am aware of the appeals process (AR 623-205)					SIGNATURE		DATE	
d. NAME OF REVIEWER (Last, First, Middle Initial)				SSN	SIGNATURE			
RANK, PMOSC/BRANCH, ORGANIZATION, DUTY ASSIGNMENT							DATE	
e. <input type="checkbox"/> CONCUR WITH RATER AND SENIOR RATER EVALUATIONS <input type="checkbox"/> NONCONCUR WITH RATER AND/OR SENIOR RATER EVAL (See attached comments)								
PART III - DUTY DESCRIPTION (Rater)								
a. PRINCIPAL DUTY TITLE					b. DUTY MOSC			
c. DAILY DUTIES AND SCOPE (To include, as appropriate, people, equipment, facilities and dollars)								
d. AREAS OF SPECIAL EMPHASIS								
e. APPOINTED DUTIES								
f. Counseling dates from checklist/record				INITIAL	LATER	LATER	LATER	
PART IV - VALUES/NCO RESPONSIBILITIES (Rater)								
a. Complete each question. (Comments are mandatory for "No" entries; optional for "Yes" entries.)							YES	NO
1. Places dedication and commitment to the goals and missions of the Army and nation above personal welfare							1	
2. Is committed to and shows a sense of pride in the unit - works as a member of the team							2	
3. Is disciplined and obedient to the spirit and letter of a lawful order							3	
4. Is honest and truthful in word and deed							4	
5. Maintains high standards of personal conduct on and off duty							5	
6. Has the courage of convictions and the ability to overcome fear - stands up for and does what's right							6	
7. Supports EO/EEO							7	
Bullet comments								
V A L U E S ARMY ETHIC Loyalty Duty Selfless Service Integrity		PERSONAL Commitment Competence Candor Courage						

RATED NCO'S NAME (Last, First, Middle initial)		SSN	THRU DATE																				
PART IV (Rater) - VALUES/NCO RESPONSIBILITIES																							
Specific Bulleted examples of EXCELLENCE or NEEDS IMPROVEMENT are mandatory Specific Bulleted examples of SUCCESS are optional																							
b. COMPETENCE o Duty proficiency, MOS competency o Technical & tactical, knowledge, skills, and abilities o Sound judgment o Seeking self-improvement, always learning o Accomplishing tasks to the fullest capacity, committed to excellence <table style="width: 100%; font-size: x-small;"> <tr> <td style="text-align: center;">EXCELLENCE (Exceeds std)</td> <td style="text-align: center;">SUCCESS (Meets std)</td> <td style="text-align: center;">NEEDS IMPROVEMENT (Some) (Much)</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> </tr> </table>	EXCELLENCE (Exceeds std)	SUCCESS (Meets std)	NEEDS IMPROVEMENT (Some) (Much)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>																	
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>																					
c. PHYSICAL FITNESS & MILITARY BEARING o Mental and physical toughness o Endurance and stamina to go the distance o Displaying confidence and enthusiasm, looks like a soldier <table style="width: 100%; font-size: x-small;"> <tr> <td style="text-align: center;">EXCELLENCE (Exceeds std)</td> <td style="text-align: center;">SUCCESS (Meets std)</td> <td style="text-align: center;">NEEDS IMPROVEMENT (Some) (Much)</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> </tr> </table>	EXCELLENCE (Exceeds std)	SUCCESS (Meets std)	NEEDS IMPROVEMENT (Some) (Much)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<table style="width: 100%; font-size: x-small;"> <tr> <td style="width: 50%;">APFT</td> <td style="width: 50%;">HEIGHT/WEIGHT</td> </tr> <tr> <td colspan="2" style="height: 100px;"></td> </tr> </table>			APFT	HEIGHT/WEIGHT												
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>																					
APFT	HEIGHT/WEIGHT																						
d. LEADERSHIP o Mission first o Genuine concern for soldiers o Instilling the spirit to achieve and win o Setting the example, Be, Know, Do <table style="width: 100%; font-size: x-small;"> <tr> <td style="text-align: center;">EXCELLENCE (Exceeds std)</td> <td style="text-align: center;">SUCCESS (Meets std)</td> <td style="text-align: center;">NEEDS IMPROVEMENT (Some) (Much)</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> </tr> </table>	EXCELLENCE (Exceeds std)	SUCCESS (Meets std)	NEEDS IMPROVEMENT (Some) (Much)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>																	
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>																					
e. TRAINING o Individual and team o Mission focused; performance oriented o Teaching soldiers how; common tasks, duty-related skills o Sharing knowledge and experience to fight, survive and win <table style="width: 100%; font-size: x-small;"> <tr> <td style="text-align: center;">EXCELLENCE (Exceeds std)</td> <td style="text-align: center;">SUCCESS (Meets std)</td> <td style="text-align: center;">NEEDS IMPROVEMENT (Some) (Much)</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> </tr> </table>	EXCELLENCE (Exceeds std)	SUCCESS (Meets std)	NEEDS IMPROVEMENT (Some) (Much)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>																	
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f. RESPONSIBILITY & ACCOUNTABILITY o Care and maintenance of equip./facilities o Soldier and equipment safety o Conservation of supplies and funds o Encouraging soldiers to learn and grow o Responsible for good, bad, right & wrong <table style="width: 100%; font-size: x-small;"> <tr> <td style="text-align: center;">EXCELLENCE (Exceeds std)</td> <td style="text-align: center;">SUCCESS (Meets std)</td> <td style="text-align: center;">NEEDS IMPROVEMENT (Some) (Much)</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></td> </tr> </table>	EXCELLENCE (Exceeds std)	SUCCESS (Meets std)	NEEDS IMPROVEMENT (Some) (Much)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>																	
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PART V - OVERALL PERFORMANCE AND POTENTIAL																							
a. RATER. Overall potential for promotion and/or service in positions of greater responsibility. <table style="width: 100%; font-size: x-small;"> <tr> <td style="text-align: center;">AMONG THE BEST</td> <td style="text-align: center;">FULLY CAPABLE</td> <td style="text-align: center;">MARGINAL</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	AMONG THE BEST	FULLY CAPABLE	MARGINAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	e. SENIOR RATER BULLETED COMMENTS <div style="height: 150px;"></div>																
AMONG THE BEST	FULLY CAPABLE	MARGINAL																					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																					
b. RATER. List 3 positions in which the rated NCO could best serve the Army at his/her current or next higher grade. <div style="border-bottom: 1px solid black; height: 1.2em; margin-bottom: 2px;"></div> <div style="border-bottom: 1px solid black; height: 1.2em; margin-bottom: 2px;"></div> <div style="border-bottom: 1px solid black; height: 1.2em;"></div>																							
c. SENIOR RATER. Overall performance <table style="width: 100%; font-size: x-small; margin-top: 5px;"> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> </tr> <tr> <td style="text-align: center;">Successful</td> <td></td> <td style="text-align: center;">Fair</td> <td></td> <td style="text-align: center;">Poor</td> </tr> </table>	1	2	3	4	5	Successful		Fair		Poor	d. SENIOR RATER. Overall potential for promotion and/or service in positions of greater responsibility. <table style="width: 100%; font-size: x-small; margin-top: 5px;"> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> </tr> <tr> <td style="text-align: center;">Superior</td> <td></td> <td></td> <td style="text-align: center;">Fair</td> <td style="text-align: center;">Poor</td> </tr> </table>			1	2	3	4	5	Superior			Fair	Poor
1	2	3	4	5																			
Successful		Fair		Poor																			
1	2	3	4	5																			
Superior			Fair	Poor																			

NCO COUNSELING CHECKLIST/RECORD

For use of this form, see AR 623-205; the proponent agency MILPERCEN

NAME OF RATED NCO	RANK	DUTY POSITION	UNIT

PURPOSE: The primary purpose of counseling is to improve performance and to professionally develop the rated NCO. The best counseling is always looking forward. It does not dwell on the past and on what was done, rather on the future and what can be done better. Counseling at the end of the rating period is too late since there is no time to improve before evaluation.

RULES:

1. Face-to-face performance counseling is mandatory for all Noncommissioned Officers.
2. This form is for use along with a working copy of the NCO-ER for conducting NCO performance counseling and recording counseling content and dates. Its use is mandatory for counseling all NCOs, CPL thru SFC/PSG, and is optional for counseling other senior NCOs.
3. Active Component. Initial counseling must be conducted within the first 30 days of each rating period, and at least quarterly thereafter. Reserve Components. (ARNG, USAR). Counseling must be conducted at least semiannually. There is no mandatory counseling at the end of the rating period.

CHECKLIST - FIRST COUNSELING SESSION AT THE BEGINNING OF THE RATING PERIOD**PREPARATION**

1. Schedule counseling session, notify rated NCO.
2. Get copy of last duty description used for rated NCO's duty position, a blank copy of the NCO-ER, and the names of the new rating chain.
3. Update duty description (see page 2).
4. Fill out rating chain and duty description on working copy of NCO-ER. Parts II and III.
5. Read each of the values/responsibilities in Part IV of NCO-ER and the expanded definitions and examples on page 3 and 4 of this form.
6. Think how each value and responsibility in Part IV of NCO-ER applies to the rated NCO and his/her duty position.
Note: Leadership and training may be more difficult to apply than the other values/responsibilities when the rated NCO has no subordinates. Leadership is simply influencing others in the accomplishment of the mission and that can include peers and superiors. It also can be applied directly to additional duties and other areas of Army community life. Individual training is the responsibility of all NCOs whether or not there are subordinates. Every NCO knows something that can be taught to others and should be involved in some way in a training program.
7. Decide what you consider necessary for success (a meets standards rating) for each value/responsibility. Use the examples listed on pages 3 and 4 of this form as a guide in developing your own standards for success. Some may apply exactly, but you may have to change them or develop new ones that apply to your situation. Be specific so the rated NCO will know what is expected.
8. Make notes in blank spaces in Part IV of NCO-ER to help when counseling.
9. Review counseling tips in FM 22-101.

COUNSELING

1. Make sure rated NCO knows rating chain.
2. Show rated NCO the draft duty description on your working copy of the NCO-ER. Explain all parts. If rated NCO performed in position before, ask for any ideas to make duty description better.
3. Discuss the meaning of each value/responsibility in Part IV of NCO-ER. Use the trigger words on the NCO-ER, and the expanded definitions on pages 3 and 4 of this form to help.
4. Explain how each value/responsibility applies to the specific duty position by showing or telling your standards for success (a meets standards rating). Use examples on pages 3 and 4 of this form as a start point. Be specific so the rated NCO really knows what's expected.
5. When possible, give specific examples of excellence that could apply. This gives the rated NCO something special to strive for. Remember that only a few achieve real excellence and that real excellence always includes specific results and often includes accomplishments of subordinates.
6. Give rated NCO opportunity to ask questions and make suggestions.

AFTER COUNSELING

1. Record rated NCO's name and counseling date on this form.
2. Write key points made in counseling session on this form.
3. Show key points to rated NCO and get his initials.
4. Save NCO-ER with this checklist for next counseling session.

CHECKLIST - LATER COUNSELING SESSIONS DURING THE RATING PERIOD**PREPARATION**

1. Schedule counseling session, notify rated NCO, and tell him/her to come prepared to discuss what has been accomplished in each value/responsibility area.
2. Look at working copy of NCO-ER you used during last counseling session.
3. Read and update duty description. Especially note the area of special emphasis; the priorities may have changed.
4. Read again, each of the values/responsibilities in Part IV of NCO-ER and the expanded definitions and examples on pages 3 and 4 of this form; then think again, about your standards for success.
5. Look over the notes you wrote down on page 2 of this form about the last counseling session.

6. Think about what the rated NCO has done so far during this rating period (specifically, observed action, demonstrated behavior, and results).
7. For each value/responsibility area, answer three questions: First, what has happened in response to any discussion you had during the last counseling session? Second, what has been done well?; and Third, what could be done better?
8. Make notes in blank spaces in Part IV of NCO-ER to help focus when counseling. (Use new NCO-ER if old one is full from last counseling session).
9. Review counseling tips in FM 22-101.

COUNSELING

1. Go over each part of the duty description with rated NCO. Discuss any changes, especially to the area of special emphasis.

2. Tell rated NCO how he/she is doing. Use your success standards as a guide for the discussion (the examples on pages 3 and 4 may help). First, for each value/responsibility, talk about what has happened in response to any discussion you had during the last counseling session (remember, observed action, demonstrated behavior and results). Second, talk about what was done well. Third, talk about how to do better. The goal is to get all NCOs to be successful and meet standards.

3. When possible, give examples of excellence that could apply. This gives the rated NCO something to strive for, **REMEMBER, EXCELLENCE IS SPECIAL, ONLY A FEW ACHIEVE IT!** Excellence includes results and often involves subordinates.

4. Ask rated NCO for ideas, examples and opinions on what has been done so far and what can be done better. (This step can be done first or last).

AFTER COUNSELING

1. Record counseling date on this form.
2. Write key points made in counseling session on this form.
3. Show key points to rated NCO and get his initials.
4. Save NCO-ER with this checklist for next counseling session. (Notes should make record NCO-ER preparation easy at end of rating period).

COUNSELING RECORD

DATE OF COUNSELING	RATED NCO's INITIALS	KEY POINTS MADE
INITIAL		
LATER		
LATER		
LATER		

DUTY DESCRIPTION (PART III of NCO-ER)

The duty description is essential to performance counseling and evaluation. It is used during the first counseling session to tell rated NCO what the duties are and what needs to be emphasized. It may change somewhat during the rating period. It is used at the end of the rating period to record what was important about the duties.

The five elements of the duty description:

1 & 2. Principal Duty Title and Duty MOS Code. Enter principal duty title and DMOS that most accurately reflects actual duties performed.

3. Daily Duties and Scope. This portion should address the most important routine duties and responsibilities. Ideally, this should include number of people supervised, equipment, facilities, and dollars involved and any other routine duties and responsibilities critical to mission accomplishment.

4. Area of Special Emphasis. This portion is most likely to change somewhat during the rating period. For the first counseling session, it includes those items that require top priority effort at least for the first part of the upcoming rating period. At the end of the rating period, it should include the most important items that applied at any time during the rating period (examples are preparation for REFORGER deployment, combined arms drills training for FTX, preparation for NTC rotation, revision of battalion maintenance SOP, training for tank table qualification, ITEP and company AMTP readiness, related tasks cross-training, reserve components annual training support (AT) and SIDPERS acceptance rate).

5. Appointed Duties. This portion should include those duties that are appointed and are not normally associated with the duty description.

VALUES/NCO RESPONSIBILITIES (PART IV of NCO-ER)

VALUES: Values are what soldiers, as a profession, judge to be right. They are the moral, ethical, and professional attributes of character. They are the heart and soul of a great Army. Part IVa of the NCO-ER includes some of the most important values. These are: Putting the welfare of the nation, the assigned mission and teamwork before individual interests; Exhibiting absolute honesty and courage

to stand up for what is right; Developing a sense of obligation and support between those who are led, those who lead, and those who serve alongside; Maintaining high standards of personal conduct on and off duty; And finally, demonstrating obedience, total adherence to the spirit and letter of a lawful order, discipline, and ability to overcome fear despite difficulty or danger.

Examples of standards for "YES" ratings:

- Put the Army, the mission and subordinates first before own personal interest.
- Meet challenges without compromising integrity.
- Personal conduct, both on and off duty, reflects favorably on NCO corps.
- Obey lawful orders and do what is right without orders.
- Choose the hard right over the easy wrong.
- Exhibit pride in unit, be a team player.
- Demonstrate respect for all soldiers regardless of race, creed, color, sex, or national origin.

COMPETENCE: The knowledge, skills and abilities necessary to be expert in the current duty assignment and to perform adequately in other assignments within the MOS when required. Competence is both technical and tactical and includes reading, writing, speaking and basic mathematics. It also includes sound judgment, ability to weigh alternatives, form objective opinions and make good decisions.

Closely allied with competence is the constant desire to be better, to listen and learn more and to do each task completely to the best of one's ability. Learn, grow, set standards, and achieve them, create and innovate, take prudent risks, never settle for less than best. Committed to excellence.

Examples of standards for "Success/Meets Standards" rating:

- Master the knowledge, skills and abilities required for performance in your duty position.
- Meet PMOS SQT standards for your grade.
- Accomplish completely and promptly those tasks assigned or required by duty position.
- Constantly seek ways to learn, grow and improve.

Examples of "Excellence":

- Picked as SSG to be a platoon sergeant over twelve other SSGs.
- Maintained SIDPERS rating of 98% for six months.
- Scored 94% on last SQT.
- Selected best truck master in annual battalion competition.
- Designated Installation Drill Sergeant of Quarter.
- Exceeded recruiting objectives two consecutive quarters.
- Awarded Expert Infantryman Badge (EIB).

PHYSICAL FITNESS AND MILITARY BEARING: Physical fitness is the physical and mental ability to accomplish the mission – combat readiness. Total fitness includes weight control, diet and nutrition, smoking cessation, control of substance abuse, stress management, and physical training. It covers strength, endurance, stamina, flexibility, speed, agility, coordination and balance. NCOs are responsible for their own physical fitness and that of their

subordinates. Military Bearing consists of posture, dress, overall appearance, and manner of physical movement. Bearing also includes an outward display of inner-feelings, fears, and overall confidence and enthusiasm. An inherent NCO responsibility is concern with the military bearing of the individual soldier, to include on-the-spot corrections.

Examples of standards for "Success/Meets Standards" rating:

- Maintain weight within Army limits for age and sex.
- Obtain passing score in APFT and participate in a regular exercise program.
- Maintain personal appearance and exhibit enthusiasm to the point of setting an example for junior enlisted soldiers.
- Monitor and encourage improvement in the physical and military bearing of subordinates.

Examples of "Excellence":

- Received Physical Fitness Badge for 292 score on APFT.
- Selected soldier of the month/quarter/year.
- Three of the last four soldiers of the month were from his/her platoon.
- As Master Fitness Trainer, established battalion physical fitness program.
- His entire squad was commended for scoring above 270 on APFT.

LEADERSHIP: Influencing others to accomplish the mission. It consists of applying leadership attributes (Beliefs, Values, Ethics, Character, Knowledge, and Skills). It includes setting tough, but achievable standards and demanding that they be met; Caring deeply and sincerely for subordinates and their families and welcoming the opportunity to serve them. Conducting counseling. Setting the

example by word and act/deed; Can be summarized by BE (Committed to the professional Army ethic and professional traits); KNOW (The factors of leadership, yourself, human nature, your job, and your unit); DO (Provide direction, implement, and motivate). Instill the spirit to achieve and win; Inspire and develop excellence. A soldier cared for today, leads tomorrow.

Examples of standards for "Success/Meets Standards" rating:

- Motivate subordinates to perform to the best of their ability as individuals and together as a disciplined cohesive team to accomplish the mission.
- Demonstrate that you care deeply and sincerely for soldiers and welcome the opportunity to serve them.
- Instill the spirit to achieve and win; Inspire and develop excellence through counseling.
- Set the example: BE, KNOW, DO.

Examples of "Excellence":

- Motivated entire squad to qualify expert with M-16
- Won last three platoon quad inspections
- Selected for membership in Sergeant Morales Club
- Inspired mechanics to maintain operational readiness rating of 95% for two consecutive quarters
- Led his squad through map orienteering course to win the battalion competition.
- Counseled two marginal soldiers ultimately selected for promotion.

TRAINING: Preparing individuals, units and combined arms teams for duty performance; The teaching of skills and knowledge. NCOs contribute to team training, are often responsible for unit training (Squads, Crews, Sections), but individual training is the most important, exclusive responsibility of the NCO Corps. Quality training bonds units; Leads directly to good discipline; Concentrates on

wartime missions; Is tough and demanding without being reckless; Is performance oriented; Sticks to Army doctrine to standardize what is taught to fight, survive, and win, as small units when AirLand battle actions dictate. "Good training means learning from mistakes and allowing plenty of room for professional growth. Sharing knowledge and experience is the greatest legacy one can leave subordinates."

Examples of standards for "Success/Meets Standards" rating:

- Make sure soldiers-
 - a. Can do identified common tasks.
 - b. Are prepared for SQT and Commander's Evaluation.
 - c. Develop and practice skills for duty position.
 - d. Train as a squad/crew/section.
- Identify and recommend subordinates for professional development courses.
- Participate in unit training program.
- Share knowledge and experience with subordinates.

Examples of "Excellence":

- Taught five common tasks resulting in 100% GO on Annual CTT for all soldiers in directorate.
- Trained best howitzer section of the year in battalion.
- Coached subordinates to win consecutive soldier of month competitions.
- Established company Expert Field Medical Badge program resulting in 85% of all eligible soldiers receiving EFMB.
- Distinguished 1 tank and qualified 3 tanks in platoon on first run of tank table VIII.
- Trained platoon to fire honor battery during annual service practice.

RESPONSIBILITY AND ACCOUNTABILITY: The proper care, maintenance, use, handling, and conservation of personnel, equipment, supplies, property, and funds. Maintenance of weapons, vehicles, equipment, conservation of supplies, and funds is a special NCO responsibility because of its links to the success of all missions, especially those on the battlefield. It includes inspecting soldier's equipment often, using manual or checklist; Holding soldiers responsible for repairs and losses; Learning how to use and maintain all the equipment soldiers use; Being among the first to operate new equipment; Keeping up-to-date component lists; Setting aside time

for inventories; and Knowing the readiness status of weapons, vehicles, and other equipment. It includes knowing where each soldier is during duty hours; Why he is going on sick call, where he lives, and his family situation; It involves reducing accidental manpower and monetary losses by providing a safe and healthful environment; It includes creating a climate which encourages young soldiers to learn and grow, and, to report serious problems without fear of repercussions. Also, NCOs must accept responsibility for their own actions and for those of their subordinates.

Examples of standards for "Success/Meets Standards" rating:

- Make sure your weapons, equipment, and vehicles are serviceable, maintained and ready for accomplishing the mission.
- Stop waste of supplies and limited funds.
- Be aware of those things that impact on soldier readiness e.g., family affairs, SQT, CTT, PQR, special duty, medical conditions, etc.
- Be responsible for your actions and those of your subordinates.

Examples of "Excellence":

- His emphasis on safety resulted in four tractor trailer drivers logging 10,000 miles accident free.
- Received commendation from CG for organizing post special olympics program.
- Won the installation award for Quarters of the Month.
- His constant instruction on maintenance resulted in six of eight mechanics earning master mechanic badges.
- Commended for no APCs on deadline report for six months.
- His learn and grow climate resulted in best platoon ARTEP results in the battalion.

ROUTINE

PT 00092 310/2106Z

PAGE 01

* TC:_____*

CONTROL NR:_____ PROPONENT:_____ INFO: AG DRF * OPR:_____*

ARMAG ARMBD ASD CHAPLAIN CPO DOC DEH DOL DOIM DPCA DPTM DRCS *****

DRM DSEC EEO IG NCOA PAO PCF PMO PROTOCOL RDC-L SGS SJA TNGGP 1948DE

18DE 48DE AC CHSDEPT DCO DOES DOTD MAINTDEPT OCOA TSMT WPNSDEPT 12CAV

CID COMSY DENTAC MEDDAC LAO RGKNOX SSG 2ROTC 43ORD 902MI USAISC 100DIV

TCC FILE _____

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ZNR UUUUU

R 031758Z NOV 88

FM CDR TNGSPTCEN FT EUSTIS VA //ATIC-ITF //

TO CORUSAARMC FT KNOX KY//ATZK-DPT-PO-SQT-TSO 085//

BT

UNCLAS

SUBJ: INDIVIDUAL SOLDIER'S REPORT

PERSONAL IN NATURE

*** INDIVIDUAL SOLDIER'S REPORT ***

COMMANDER

TSO: 085

TESTED: 27 OCT 88

SCORED: 03 NOV 88

SQT: 118418800

REPORT ON:

SCORE: 97

SSN: 576-62-2945

MOSC: 11B4 INFANTRYMAN

THE S Q T INDICATES POTENTIAL TRAINING WEAKNESS ON TASK(S):

051-192-3032 HASTY MINEFIELD

THE SOLDIER ALSO MISSED QUESTIONS ON TASK(S):

071-326-0543 ORGN SQUAD FOR ATTCK

071-326-5509 CONSOLID/REORG SQUAD

071-326-5630 PLATOON MOVEMENT

071-331-0002 COND LOCAL SECURITY

BT

ROUTINE

SEE PRIVACY ACT STATEMENT
ON DA FORM 67-8-1

For use of this form see AR 623.106, proponent
agency is US Army Military Personnel Center

PART I - ADMINISTRATIVE DATA																																							
a. LAST NAME FIRST NAME MIDDLE INITIAL				b. SSN		c. GRADE		d. DATE OF RANK Year Month Day			e. BR																												
f. UNIT ORGANIZATION STATION ZIP CODE OR APO MAJOR COMMAND				g. REASON FOR SUBMISSION				h. DESIGNATED SPECIALTIES		i. PACES /W/O																													
j. COMD CODE				k. MILPO CODE		l. RATED OFFICER COPY (Check one and date) <input type="checkbox"/> 1 GIVEN TO OFFICER <input type="checkbox"/> 2 FORWARDED TO OFFICER				m. FORWARDING ADDRESS																													
n. EXPLANATION OF NONRATED PERIODS																																							
PART II - AUTHENTICATION (Rated officer signature verifies PART I data and RATING OFFICIALS ONLY)																																							
a. NAME OF RATER (Last First MI)				SSN		SIGNATURE <div style="border: 1px solid black; height: 20px; width: 100%;"></div>																																	
GRADE BRANCH ORGANIZATION DUTY ASSIGNMENT										DATE																													
b. NAME OF INTERMEDIATE RATER (Last First MI)				SSN		SIGNATURE <div style="border: 1px solid black; height: 20px; width: 100%;"></div>																																	
GRADE BRANCH ORGANIZATION DUTY ASSIGNMENT										DATE																													
c. NAME OF SENIOR RATER (Last First MI)				SSN		SIGNATURE <div style="border: 1px solid black; height: 20px; width: 100%;"></div>																																	
GRADE BRANCH ORGANIZATION DUTY ASSIGNMENT										DATE																													
d. SIGNATURE OF RATED OFFICER				DATE		e. DATE ENTERED ON DA FORM 21		f. RATED OFFICER MPO INITIALS		g. SR MPO INITIALS																													
h. NO. OF INCL																																							
PART III - DUTY DESCRIPTION (Rater)																																							
a. PRINCIPAL DUTY TITLE								b. SS/MOS																															
c. REFER TO PART IIIa, DA FORM 67-8-1																																							
PART IV - PERFORMANCE EVALUATION - PROFESSIONALISM (Rater)																																							
a. PROFESSIONAL COMPETENCE (In Items 1 through 14 below, indicate the degree of agreement with the following statements as being descriptive of the rated officer. Any comments will be reflected in b below.)																																							
										<div style="display: flex; justify-content: space-between;"> HIGH DEGREE LOW DEGREE </div> <div style="display: flex; justify-content: space-between;"> 1 2 3 4 5 </div>																													
<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">1. Possesses capacity to acquire knowledge/grasp concepts</td> <td style="width: 5%; text-align: center; padding: 2px;"></td> <td style="width: 45%; padding: 2px;">8. Displays sound judgment</td> <td style="width: 5%; text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">2. Demonstrates appropriate knowledge and expertise in assigned tasks</td> <td style="text-align: center; padding: 2px;"></td> <td style="padding: 2px;">9. Seeks self-improvement</td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">3. Maintains appropriate level of physical fitness</td> <td style="text-align: center; padding: 2px;"></td> <td style="padding: 2px;">10. Is adaptable to changing situations</td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">4. Motivates, challenges and develops subordinates</td> <td style="text-align: center; padding: 2px;"></td> <td style="padding: 2px;">11. Sets and enforces high standards</td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">5. Performs under physical and mental stress</td> <td style="text-align: center; padding: 2px;"></td> <td style="padding: 2px;">12. Possesses military bearing and appearance</td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">6. Encourages candor and frankness in subordinates</td> <td style="text-align: center; padding: 2px;"></td> <td style="padding: 2px;">13. Supports EO/EEO</td> <td style="text-align: center; padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">7. Clear and concise in written communication</td> <td style="text-align: center; padding: 2px;"></td> <td style="padding: 2px;">14. Clear and concise in oral communication</td> <td style="text-align: center; padding: 2px;"></td> </tr> </table>												1. Possesses capacity to acquire knowledge/grasp concepts		8. Displays sound judgment		2. Demonstrates appropriate knowledge and expertise in assigned tasks		9. Seeks self-improvement		3. Maintains appropriate level of physical fitness		10. Is adaptable to changing situations		4. Motivates, challenges and develops subordinates		11. Sets and enforces high standards		5. Performs under physical and mental stress		12. Possesses military bearing and appearance		6. Encourages candor and frankness in subordinates		13. Supports EO/EEO		7. Clear and concise in written communication		14. Clear and concise in oral communication	
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7. Clear and concise in written communication		14. Clear and concise in oral communication																																					
b. PROFESSIONAL ETHICS (Comment on any area where the rated officer is particularly outstanding or needs improvement)																																							
<div style="display: flex;"> <div style="width: 20%; padding: 2px;"> 1. DEDICATION 2. RESPONSIBILITY 3. LOYALTY 4. DISCIPLINE 5. INTEGRITY 6. MORAL COURAGE 7. SELFLESSNESS 8. MORAL STANDARDS </div> <div style="width: 80%;"></div> </div>																																							

☆ U.S.G.P.O. 1988 - 201-424/80236

c. LIST YOUR SIGNIFICANT CONTRIBUTIONS

SIGNATURE AND DATE

PART V — RATER AND/OR INTERMEDIATE RATER (Review and comment on Part IVa, b, and c above.
Insure remarks are consistent with your performance and potential evaluation on DA Form 67-8.)

a. RATER COMMENTS (Optional)

SIGNATURE AND DATE (Mandatory)

b. INTERMEDIATE RATER COMMENTS (Optional)

SIGNATURE AND DATE (Mandatory)

DATA REQUIRED BY THE PRIVACY ACT OF 1974 (5 U.S.C. 552a)

1. AUTHORITY: Sec 301 Title 5 USC; Sec 3012 Title 10 USC.

2. PURPOSE: DA Form 67-8, Officer Evaluation Report, serves as the primary source of information for officer personnel management decisions. DA Form 67-8-1, Officer Evaluation Support Form, serves as a guide for the rated officer's performance, development of the rated officer, enhances the accomplishment of the organization mission, and provides additional performance information to the rating chain.

3. ROUTINE USE: DA Form 67-8 will be maintained in the rated officer's official military Personnel File (OMPF) and Career Management Individual File (CMIF). A copy will be provided to the rated officer either directly or sent to the forwarding address shown in Part I, DA Form 67-8. DA Form 67-8-1 is for organizational use only and will be returned to the rated officer after review by the rating chain.

4. DISCLOSURE: Disclosure of the rated officer's SSN (Part I, DA Form 67-8) is voluntary. However, failure to verify the SSN may result in a delayed or erroneous processing of the officer's OER. Disclosure of the information in Part IV, DA Form 67-8-1 is voluntary. However, failure to provide the information requested will result in an evaluation of the rated officer without the benefits of that officer's comments. Should the rated officer use the Privacy Act as a basis not to provide the information requested in Part IV, the Support Form will contain the rated officer's statement to that effect and be forwarded through the rating chain in accordance with AR 623-105.

REQUEST FOR ARMY/AMERICAN COUNCIL ON EDUCATION REGISTRY TRANSCRIPT

For use of this form, see AR 621-5; the proponent agency is DCSPER

DATA REQUIRED BY THE PRIVACY ACT OF 1974

AUTHORITY 10 USC, Section 4302.
ROUTINE USES Upon initiation of individual.
PRINCIPAL PURPOSE(S) To enable the Army/American Council on Education Registry Transcript System (AARTS) to access its computerized files, retrieve data, and produce a transcript for forwarding to individual or other addressee designated by the individual. Use of Social Security Number (SSN) is necessary to make positive identification of individual and records.
DISCLOSURE Voluntary. Failure to provide required information will complicate, delay, and/or prevent administrative actions needed to produce the transcript and forward it to desired addressee.
ELIGIBLES (1) **ONLY** Regular Army (RA) enlisted soldiers and veterans whose Basic Active Service Dates (BASD) fall on or after 1 October 1981.
 (2) **ONLY** Army National Guard (ARNG) enlisted soldiers and veterans on active rolls as of 1 January 1993 whose Basic Pay Entry Dates (BPED) fall on or after 1 October 1981.
MAIL OR FAX TO: Manager, AARTS Operations Center, 415 McPherson Avenue, Fort Leavenworth KS 66027-1373
 FAX Number Commercial (913) 684-2011

PLEASE TYPE OR PRINT LEGIBLY

1. SSN		2. NAME (Last, First, Middle Initial)	
3. ENLISTED RANK	4. DATE OF BIRTH	5. SIGNATURE	
6. ENLISTED STATUS (Check one) ___ REGULAR ARMY ___ VETERAN ___ ARMY NATIONAL GUARD		7. ENLISTMENT DATE (BASD or BPED) (Must be on or after 1 Oct 81)	8. TELEPHONE NUMBER (Incl DUTY () OFF-DUTY ()
9. FOR PERSONAL OR ARMY EDUCATION RECORD SEND TRANSCRIPT TO:		10. FOR COLLEGE OR EMPLOYER RECORD SEND TRANSCRIPT TO:	

FOR OFFICIAL USE ONLY**OFFICE AUTOMATION RECORD**

INITIATOR A S	AARTS ID NUMBER	OFFICE CODE C O	AARTS ID NUMBER
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CROSS REFERENCE ID NUMBER(S)

DATA ENTRY ID

RESEARCH RECORD

ARMY/AMERICAN COUNCIL ON EDUCATION
REGISTRY TRANSCRIPT

01/26/96

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PAGE

TRANSCRIPT SENT TO:

NAME: HENSLEY DANIEL EUGENE

SSN: 999-99-9999

RANK:

STAFF SERGEANT

MILITARY STATUS:

ACTIVE

TIME IN SERVICE:

12 YEARS, 8 MONTHS

ACADEMIC LEVEL COMPLET

ASSOCIATE

REGISTRAR

UNION COMMUNITY COLLEGE

P O BOX 500 UNIVERSITY STATION

ANYTOWN KS 66000

AARTS ID: 96-000000

----- MILITARY COURSE COMPLETIONS -----

COURSE: BASIC MILITARY TRAINING
(RECRUIT TRAINING)ACE GUIDE ID NUMBER:
AR-2201-0197

DESCRIPTION: TO PROVIDE TRAINING FOR ALL ENLISTED PERSONNEL WHO HAVE HAD NO PREVIOUS MILITARY SERVICE. COURSE TEACHES DISCIPLINE, SPIRIT AND BASIC COMBAT SKILLS AND INCLUDES DRILLS, CEREMONIES, ALCOHOL AND DRUG ABUSE, RAPE PREVENTION, PERSONAL HEALTH, FIRST AID, PERSONAL AFFAIRS, BASIC RIFLE MARKSMANSHIP, NBC WARFARE DEFENSE, INTRODUCTION TO INDIVIDUAL TACTICAL TECHNIQUES, U.S. WEAPONS TRAINING, MARCHES, BIVOUACS, TACTICAL TRAINING, PHYSICAL FITNESS TRAINING, REINFORCEMENT, AND EQUAL OPPORTUNITY.

ACE CREDIT RECOMMENDATION: IN THE LOWER-DIVISION BACCALAUREATE/ASSOCIATE DEGREE CATEGORY, 1 SEMESTER HOUR IN OUTDOOR SKILLS PRACTICUM, 1 IN MARKSMANSHIP, 1 IN PERSONAL HEALTH, AND 1 IN PERSONAL PHYSICAL CONDITIONING.

COURSE: STRATEGIC MICROWAVE SYSTEMS REPAIRER
SIGNAL SCHOOL
FT GORDON, GA

ACE GUIDE ID NUMBER:
AR-1715-0437

DATES TAKEN: 08/15/82-02/15/83 ARMY COURSE NUMBER: 101-26V10

DESCRIPTION: TO PROVIDE TRAINING IN THE INSTALLATION, OPERATION AND REPAIR OF STRATEGIC MICROWAVE RADIO SYSTEMS. THE COURSE INCLUDES COMPREHENSIVE COVERAGE OF BASIC ELECTRONICS: SOLID-STATE CIRCUITRY OF POWER SUPPLIES, AUDIO AMPLIFIERS, PULSE GENERATORS, AM/FM TRANSCEIVERS, AND LOGIC TRAINERS. APPROXIMATELY 50 PERCENT OF COURSE

***** CONTINUED ON PAGE 2 *****

ARMY/AMERICAN COUNCIL ON EDUCATION
REGISTRY TRANSCRIPT

1/26/96

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PAGE 2

TRANSCRIPT SENT TO:
GISTRAR
ION COMMUNITY COLLEGE
O BOX 500 UNIVERSITY STATION
YTOWN KS 66000NAME: HENSLEY DANIEL EUGENE
SSN: 999-99-9999

ARTS ID: 96-000000

----- MILITARY COURSE COMPLETIONS -----
TIME IS DEVOTED TO PRACTICAL OPERATION AND TROUBLESHOOTING OF
MILITARY RADIO EQUIPMENT, INCLUDING 76 HOURS IN PRECISION SOLDERING.
PREREQUISITES INCLUDE COMPLETION OF A COURSE IN ALGEBRA AND SOME
BACKGROUND IN SCIENCE.ACE CREDIT RECOMMENDATION: IN THE VOCATIONAL CERTIFICATE CATEGORY, 6
SEMESTER HOURS IN BASIC ELECTRONICS, 6 IN TROUBLESHOOTING TECHNIQUES,
2 IN SOLDERING OF PRINTED CIRCUIT BOARD REPAIR (8/79); IN THE
LOWER-DIVISION BACCALAUREATE/ASSOCIATE DEGREE CATEGORY, 6 SEMESTER
HOURS IN ELECTRICITY OR ELECTRONICS BASICS, 2 IN BASIC ELECTRONIC
COMMUNICATIONS, 2 IN DIGITAL CIRCUITS, 2 IN TROUBLESHOOTING
TECHNIQUES (8/79); IN THE UPPER-DIVISION BACCALAUREATE, 3 SEMESTER
HOURS IN ELECTRICITY OR ELECTRONICS LABORATORY CREDIT BASED ON
INSTITUTIONAL EVALUATION (8/79).COURSE: PRIMARY LEADERSHIP DEVELOPMENT
INFANTRY SCHOOL
FT BENNING, GAACE GUIDE ID NUMBER:
AR-2201-0253

COURSES TAKEN: 05/29/86-06/27/86 ARMY COURSE NUMBER: 698-3-PLDC

DESCRIPTION: UPON COMPLETION OF THE COURSE, THE STUDENT WILL BE ABLE
TO PERFORM ALL BASIC TASKS RELATING TO THE NONCOMMISSIONED OFFICER
LEADERSHIP RESPONSIBILITY.
LECTURES AND PRACTICAL EXERCISES IN LEADERSHIP,
COMMUNICATIONS, RESOURCE MANAGEMENT, TRAINING MANAGEMENT, AND
PROFESSIONAL SKILLS, INCLUDING INTRODUCTION TO LEADERSHIP, PRINCIPLES
OF LEADERSHIP, HUMAN BEHAVIOR, CHARACTER OF LEADERS, ETHICS, PROBLEM
SOLVING, LEADERSHIP STYLES, PRINCIPLES OF MOTIVATION, COUNSELING, AND
RESPONSIBILITY OF AUTHORITY.ACE CREDIT RECOMMENDATION: IN THE LOWER-DIVISION
BACCALAUREATE/ASSOCIATE DEGREE CATEGORY, 3 SEMESTER HOURS IN
PERSONNEL MANAGEMENT (5/87).

***** CONTINUED ON PAGE 3 *****

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TRANSCRIPT SENT TO:
REGISTRAR
UNION COMMUNITY COLLEGE
P O BOX 500 UNIVERSITY STATION
ANYTOWN KS 66000NAME: HENSLEY DANIEL EUGENE
SSN: 999-99-9999

AARTS ID: 96-000000

----- MILITARY COURSE COMPLETIONS -----

COURSE: CIRCUIT CONDITIONING
SIGNAL SCHOOL
FT GORDON, GAACE GUIDE ID NUMBER:
AR-1715-0196

DATES TAKEN: 02/09/88-03/10/88 ARMY COURSE NUMBER: 101-ASIN3

DESCRIPTION: TO TRAIN MICROWAVE SYSTEM, FIXED-PLANT CARRIER, FIXED-CIPHERY, OR DIAL CENTRAL OFFICE REPAIRMEN TO MAINTAIN SIGNAL-CONDITIONING EQUIPMENT. LECTURES AND PRACTICAL EXERCISES IN SIGNAL-CONDITIONING EQUIPMENT MAINTENANCE, INCLUDING CIRCUIT CONDITIONING AND TESTING; TYPES OF CIRCUIT-CONDITIONING TEST EQUIPMENT; ENVELOPE DELAY DISTORTION PRINCIPLES AND EQUALIZERS; COMMUNICATIONS SYSTEMS INTERFACING; AND TROUBLESHOOTING, REPAIR, AND PREVENTIVE MAINTENANCE PROCEDURES.

ACE CREDIT RECOMMENDATION: CREDIT IS NOT RECOMMENDED DUE TO THE LIMITED, SPECIALIZED NATURE OF THE COURSE (7/85).

COURSE: STRATEGIC MICROWAVE SYSTEMS REPAIRER
BASIC NONCOMMISSIONED OFFICER (NCO)
NCO ACADEMY
FT GORDON, GAACE GUIDE ID NUMBER:
AR-1715-0678** FOLLOWING RESEARCH VERIFICATION, THE AARTS MANAGER **
** AUTHORIZED THE INCLUSION OF THIS COURSE. **

DATES TAKEN: 03/09/92-04/24/92 ARMY COURSE NUMBER: 101-29V30

DESCRIPTION: UPON COMPLETION OF THE COURSE THE STUDENT WILL BE ABLE TO PROVIDE TECHNICAL ASSISTANCE AND SUPERVISION TO SUBORDINATES IN THE MAINTENANCE AND OPERATION OF MICROWAVE MULTICHANNEL RADIO AND MULTIPLEX EQUIPMENT AND SYSTEMS. REVIEW OF FUNDAMENTALS OF DIGITAL COMMUNICATIONS INCLUDING TRANSISTOR FILTERS, MICROWAVE PROPAGATION, DIGITAL TECHNIQUES, NODAL ARCHITECTURE, DIGITAL GROUP MULTIPLEXER,

***** CONTINUED ON PAGE 4 *****

ARMY/AMERICAN COUNCIL ON EDUCATION
REGISTRY TRANSCRIPT

01/26/96

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PAGE 4

TRANSCRIPT SENT TO:
REGISTRAR
UNION COMMUNITY COLLEGE
P O BOX 500 UNIVERSITY STATION
ANYTOWN KS 66000NAME: HENSLEY DANIEL EUGENE
SSN: 999-99-9999

AARTS ID: 96-000000

----- MILITARY COURSE COMPLETIONS -----

EMERGENCY POWER SOURCES, MAINTENANCE ADMINISTRATION, COMMUNICATION
SECURITY AND SITE SUPERVISION.ACE CREDIT RECOMMENDATION: IN THE LOWER-DIVISION
BACCALAUREATE/ASSOCIATE DEGREE CATEGORY, 2 SEMESTER HOURS IN
MICROWAVE COMMUNICATION (2/94). SEE EXHIBIT AR-1406-0090 FOR THE
CREDITS FOR THE BASIC NONCOMMISSIONED OFFICER (NCO) COMMON CORE.COURSE: SATELLITE/MICROWAVE SYSTEMS CHIEF
ADVANCED NONCOMMISSIONED OFFICER (NCO)
NCO ACADEMY
FT GORDON, GAACE GUIDE ID NUMBER:
AR-1715-0922

DATES TAKEN: 02/07/94-05/09/94 ARMY COURSE NUMBER: 101-31S/31P40

DESCRIPTION: UPON COMPLETION OF THE COURSE, THE STUDENT WILL BE ABLE
TO DIRECT AND SUPERVISE THE USE OF COMPUTER SYSTEMS IN THE
MAINTENANCE, OPERATION, AND ADMINISTRATION OF A SATELLITE OR
MICROWAVE COMMUNICATION STATION. THE COURSE CONSISTS OF CLASSROOM
EXERCISES AND PRACTICAL EXERCISES. TOPICS INCLUDE COMPUTER LITERACY,
SIGNAL SECURITY, SINGLE CHANNEL GROUND AND AIRBORNE RADIO SYSTEMS,
MOBILE SUBSCRIBER SYSTEMS, DIGITAL COMMUNICATION SYSTEM, MICROWAVE
COMMUNICATION SYSTEM, AND SATELLITE COMMUNICATION SYSTEM. INCLUDES A
COMMON CORE OF LEADERSHIP SUBJECTS. UPON COMPLETION OF THE COMMON
CORE COURSE, THE STUDENT WILL BE ABLE TO PROVIDE MID-LEVEL SUPERVISION
AND LEADERSHIP IN UNITS OF UP TO 400 PERSONNEL. INCLUDES LECTURES,
DEMONSTRATIONS, AND PERFORMANCE EXERCISES IN MOTIVATION, TRAINING,
MORALE, SUPERVISION, EFFECTIVE WRITING, VERBAL COMMUNICATIONS AND
LISTENING SKILLS.ACE CREDIT RECOMMENDATION: IN THE LOWER-DIVISION
BACCALAUREATE/ASSOCIATE DEGREE CATEGORY, 2 SEMESTER HOURS IN COMPUTER
LITERACY, 3 IN DIGITAL AND MICROWAVE COMMUNICATION SYSTEM OPERATION
AND MAINTENANCE, AND 3 IN SATELLITE SYSTEM APPLICATIONS AND OPERATION
(2/94). FOR CREDIT FOR THE COMMON CORE: IN THE LOWER-DIVISION
BACCALAUREATE/ASSOCIATE DEGREE CATEGORY, 1 SEMESTER HOUR IN MILITARY

***** CONTINUED ON PAGE 5 *****

ARMY/AMERICAN COUNCIL ON EDUCATION
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01/26/96

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PAGE 5

TRANSCRIPT SENT TO:
REGISTRAR
UNION COMMUNITY COLLEGE
P O BOX 500 UNIVERSITY STATION
ANYTOWN KS 66000NAME: HENSLEY DANIEL EUGENE
SSN: 999-99-9999

AARTS ID: 96-000000

----- MILITARY COURSE COMPLETIONS -----
SCIENCE AND 1 IN COMMUNICATION (4/90).

----- TEST SCORES -----

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP) - GENERAL

- 01180 ENGLISH COMPOSITION (NO ESSAY)
DATE: 04/25/86 SCORE: 655
ACE RECOMMENDED PASSING SCORE: 530 ACE RECOMMENDED CREDIT: 06 SH

- 02186 NATURAL SCIENCES
DATE: 05/05/86 SCORE: 461 BS: 46 PS: 48
ACE RECOMMENDED PASSING SCORE: 421 ACE RECOMMENDED CREDIT: 06 SH

- 03182 MATHEMATICS
DATE: 07/14/86 SCORE: 555 MS: 57 MC: 56
ACE RECOMMENDED PASSING SCORE: 421 ACE RECOMMENDED CREDIT: 06 SH

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP) - SUBJECT

- TB051 COLLEGE GERMAN LEVELS I AND II
DATE: 05/06/88 SCORE: 067 SUBTEST 1: 65 SUBTEST 2: 68
ACE RECOMMENDED PASSING SCORE: 040 ACE RECOMMENDED CREDIT: AS FOLLOWS
CREDIT BASED ON SCORE
SCORE 40-47 AWARDS 6 SH; 48 + OVER AWARDS 12 SH

----- MILITARY EXPERIENCE -----

MILITARY OCCUPATIONAL SPECIALTIES HELD: 26V10 PRIMARY (02/83-03/87)
26V10 DUTY

SQT(THRU OCT 91)/SDT(AFTER OCT 91) TAKEN: NONE

MILITARY OCCUPATIONAL SPECIALTY GROUP: 26V ACE GUIDE ID NUMBER:
TITLE: STRATEGIC MICROWAVE SYSTEMS REPAIRER MOS 26V-001
DESCRIPTION OF 26V10: KNOWS MICROWAVE COMMUNICATIONS SYSTEMS,
TERMINOLOGY AND CIRCUITRY; USES TEST EQUIPMENT TO DETERMINE EQUIPMENT
CONDITION; OPERATES BASIC MICROWAVE EQUIPMENT; DOES FIRST LINE REPAIR

***** CONTINUED ON PAGE 6 *****

Occupational Title Index

This index is designed to provide access to the occupation exhibits in this volume. The titles are listed in alphabetical order. When the occupational title is found, note the exhibit ID number to its right. Locate that number in the proper occupation exhibit section.

Occupations are grouped by military service, using the following prefixes: **MOS:** Army; **CGR** and **CGW:** Coast Guard; **MCE:** Marine Corps; and **NER, LDO,** and **NWO:** Navy.

Accounting Specialist	MOS-73D-002 MOS-73D-003	Allied Trades Technician	MOS-914A-001 MOS-914A-002
Administrative Specialist	MOS-71L-002 MOS-71L-003	Ammunition Inspector	MOS-55X-001 MOS-55X-002
Aerial Intelligence Specialist	MOS-96H-002 MOS-96H-003	Ammunition Specialist	MOS-55B-002 MOS-55B-003 MOS-55B-004
Aeroscout Observer	MOS-93B-001	Ammunition Stock Control and Accounting Specialist	MOS-55R-001
AH-1 Attack Helicopter Repairer	MOS-67Y-003	Ammunition Storage and Operations Specialist	MOS-55B-002
AH-1 Attack Helicopter Technical Inspector	MOS-66Y-001	Ammunition Supervisor	MOS-55Z-001 MOS-55Z-002
AH-1 Attack Pilot	MOS-152G-002	Ammunition Technician	MOS-910A-001 MOS-910A-002
AH-64 Armament/Electrical Systems Repairer	MOS-68X-001	AN/TSQ 73 Air Defense Artillery Command and Control System Operator/Maintainer	MOS-25L-002
AH-64 Attack Helicopter Repairer	MOS-67R-001	AN/TSQ 73 Air Defense Artillery Command and Control System Operator/Repairer	MOS-25L-002
AH-64 Attack Helicopter Technical Inspector	MOS-66R-001	AN/TSQ-73 Air Defense Artillery Command and Control System Operator/Repairer	MOS-25L-001
AH-64 Attack Pilot	MOS-152F-002	Animal Care Specialist	MOS-91T-004
Air Defense Artillery Operations and Intelligence Assistant	MOS-16H-001	Animal Specialist	MOS-91T-003
Air Defense Artillery Senior Sergeant	MOS-16Z-001 MOS-16Z-002	Area Air Defense Artillery Crewman	MOS-16R-002
Air Defense Artillery Short Range Gunnery Crewman	MOS-16R-002	Area Intelligence Technician	MOS-351C-001
Air Defense Radar Repairer	MOS-26H-002	Armament Repair Technician	MOS-913A-001 MOS-913A-002
Air Traffic Control (ATC) Operator	MOS-93C-002	Armament Repairer	MOS-45K-004
Air Traffic Control Equipment Repairer	MOS-93D-001	Armament/Electrical Systems Repairer	MOS-68X-001
Air Traffic Control Operator	MOS-93C-003	Armament/Fire Control Maintenance Supervisor	MOS-45Z-002 MOS-45Z-003
Air Traffic Control Systems, Subsystems and Equipment Repairer	MOS-93D-001	Armor Senior Sergeant	MOS-19Z-001 MOS-19Z-002
Air Traffic Control Technician	MOS-150A-001	Armor/Cavalry Systems Maintenance Technician	MOS-915D-001
Airbrake Repairer	MOS-88R-001	Artillery Repairer	MOS-45L-002 MOS-45L-003
Aircraft Armament Technical Inspector	MOS-66J-001	Attache Technician	MOS-350L-001
Aircraft Armament/Missile Systems Repairer	MOS-68J-004	Audio-Visual Chief	MOS-25Z-001
Aircraft Components Repair Supervisor	MOS-68K-001 MOS-68K-002	Automated Communications Computer System Repairer	MOS-39G-002
Aircraft Electrician	MOS-68F-002 MOS-68F-003	Automated Communications Computer Systems Repairer	MOS-39G-001
Aircraft Maintenance Senior Sergeant	MOS-67Z-003	Automated Logistical Specialist	MOS-92A-001 MOS-92A-002
Aircraft Pneudraulics Repairer	MOS-68H-002 MOS-68H-003	Automatic Data Telecommunications Center Operator	MOS-72G-003
Aircraft Powerplant Repairer	MOS-68B-002 MOS-68B-003	Automatic Test Equipment Operator/Maintainer	MOS-39B-001
Aircraft Powertrain Repairer	MOS-68D-002 MOS-68D-003	Avenger Crewmember	MOS-14S-001
Aircraft Structural Repairer	MOS-68G-002 MOS-68G-003	Avenger System Repairer	MOS-27T-001
Airdrop Equipment Technician	MOS-921A-001		
Airdrop Systems Technician	MOS-921A-002		
All Source Intelligence Technician	MOS-350B-001 MOS-350B-002		

Aviation Maintenance Technician	MOS-151A-001 MOS-151A-002	Chaparral/Redeye Repairer	MOS-27G-002 MOS-27G-003
Aviation Operations Specialist	MOS-93P-002	Chaparral/Vulcan Systems Technician	MOS-140B-001 MOS-140B-002
Aviation Systems Repairer	MOS-33R-001	Chaplain Assistant	MOS-71M-003 MOS-71M-004
Avionic Communications Equipment Repairer	MOS-68I-001	Chemical Operations Specialist	MOS-54B-002
Avionic Flight Systems Repairer	MOS-68Q-001	CID Special Agent	MOS-311A-001 MOS-311A-002 MOS-95D-003
Avionic Maintenance Supervisor	MOS-68P-001	Civil Affairs Specialist (Reserve Components)	MOS-38A-001
Avionic Mechanic	MOS-68N-001	Clarinet Player	MOS-02J-003 MOS-02J-004 MOS-02J-005
Avionic Radar Repairer	MOS-68R-001	Club Manager	MOS-420D-001
Bandmaster	MOS-420C-001 MOS-420C-002	Combat Documentation/Production Specialist	MOS-25V-001
Bands Senior Sergeant	MOS-02Z-001 MOS-02Z-002	Combat Engineer	MOS-12B-003 MOS-12B-004
Baritone or Euphonium Player	MOS-02C-003 MOS-02C-004 MOS-02C-005	Combat Engineering Senior Sergeant	MOS-12Z-002 MOS-12Z-003
Bassoon Player	MOS-02K-003 MOS-02K-004 MOS-02K-005	Combat Signaler	MOS-31K-001
Behavioral Science Specialist	MOS-91G-002 MOS-91G-003	Combat Telecommunications Center Operator	MOS-72E-003
Biological Sciences Assistant	MOS-01H-002	Command and Control Systems Technician	MOS-140A-001 MOS-140A-002
Biomedical Equipment Repair Technician	MOS-670A-001	Command Sergeant Major	MOS-00Z-001 MOS-00Z-002
Biomedical Equipment Specialist, Advanced	MOS-35U-003	Communications Electronics Maintenance Chief	MOS-29W-002
Biomedical Equipment Specialist, Basic	MOS-35G-003	Communications Equipment Maintenance Chief	MOS-29X-001
Bradley Fighting Vehicle System Mechanic	MOS-45T-001 MOS-63T-002	Communications Maintenance Support Chief	MOS-29W-001
Bridge Crewman	MOS-12C-002 MOS-12C-003	Communications Security Equipment Repairer	MOS-29S-003 MOS-29S-004
Broadcast Journalist	MOS-46R-001	Communications Security Maintenance Chief	MOS-29P-001
C-12 Pilot	MOS-155E-002	Communications Security Technician	MOS-250A-001 MOS-250A-002
Cable Systems Installer-Maintainer	MOS-31L-002	Communications Systems Supervisor	MOS-31Y-001
Calibration and Repair Technician	MOS-252A-001	Communications Systems/Circuit Controller	MOS-31N-003
Calibration Specialist	MOS-35H-003	Communications-Electronics Repair Technician	MOS-256A-001
Calibration Technician	MOS-252A-001	Communications-Operations Chief	MOS-31Z-003
Cannon Crewmember	MOS-13B-003	Computer/Machine Operator	MOS-74D-003
Cannon Fire Direction Specialist	MOS-13E-004 MOS-13E-005	Computerized Systems Maintenance Chief	MOS-39V-001
Cardiac Specialist	MOS-91N-002 MOS-91N-003	Concrete and Asphalt Equipment Operator	MOS-62H-002 MOS-62H-003
Career Counselor	MOS-79S-001	Construction Engineering Supervisor	MOS-51H-002 MOS-51H-003
Cargo Specialist	MOS-88H-001 MOS-88H-002 MOS-88H-003	Construction Equipment Repairer	MOS-62B-003 MOS-62B-004
Carpentry and Masonry Specialist	MOS-51B-002 MOS-51B-003	Construction Equipment Supervisor	MOS-62N-002 MOS-62N-003
Cartographer	MOS-81C-002 MOS-81C-003	Construction Surveyor	MOS-82B-002 MOS-82B-003
Cavalry Scout	MOS-19D-001 MOS-19D-002	Cornet or Trumpet Player	MOS-02B-004 MOS-02B-005
CH-47 Helicopter Repairer	MOS-67U-003	Corrections NCO	MOS-95C-002
CH-47 Pilot	MOS-154B-002	Corrections Specialist	MOS-95C-002
CH-47A/B/C Pilot	MOS-154B-002	Counter-Signals Intelligence Specialist	MOS-97G-002
CH-47D Pilot	MOS-154C-002	Counterintelligence Agent	MOS-97B-003 MOS-97B-004
CH-54 Pilot (Heavy Lift RC only)	MOS-154A-002	Counterintelligence Special Agent	MOS-351B-001
Chaparral Crewmember	MOS-16P-002 MOS-16P-003	Counterintelligence Technician	MOS-351B-002
Chaparral System Mechanic	MOS-24N-002 MOS-24N-003		

Counterintelligence/Human Intelligence Senior Sergeant	MOS-97Z-001	Executive Administrative Assistant	MOS-71C-003 MOS-71C-004
Court Reporter	MOS-71E-004 MOS-71E-005	Explosive Ordnance Disposal Specialist	MOS-55D-001 MOS-55D-002
Crane Operator	MOS-62F-003	Eye Specialist	MOS-91Y-002 MOS-91Y-003
Custodial Systems Technician	MOS-140C-001	Fabric Repair Specialist	MOS-43M-003 MOS-43M-004 MOS-43M-005
Cytology Specialist	MOS-92E-001	Field Artillery Digital Systems Repairer	MOS-39L-001
Data Processing NCO	MOS-74Z-001	Field Artillery Firefinder Radar Operator	MOS-13R-002
Data Processing Systems Repair Technician	MOS-257A-001	Field Artillery Meteorological Crewmember	MOS-93F-003 MOS-93F-004
Data Processing Technician	MOS-251A-001	Field Artillery Radar Crewmember	MOS-17B-002 MOS-17B-003
Decentralized Automated Service Support System (DAS3) Computer Systems Repairer	MOS-39D-001	Field Artillery Senior Sergeant	MOS-13Z-001 MOS-13Z-002
Defense Acquisition Radar Crewman	MOS-16J-001	Field Artillery Surveyor	MOS-82C-003
Dental Laboratory Specialist	MOS-42D-002 MOS-42D-003	Field Artillery Systems Maintenance Technician	MOS-915C-001
Dental Specialist	MOS-91E-002 MOS-91E-003	Field Artillery Tactical Fire Direction Systems Repairer	MOS-39Y-001
Diver	MOS-00B-002 MOS-00B-003	Field Communications Security Equipment Repairer	MOS-29S-001 MOS-29S-002
Ear, Nose, and Throat (ENT) Specialist	MOS-91U-002 MOS-91U-003	Fighting Vehicle Infantryman	MOS-11M-002
Electric Bass Guitar Player	MOS-02U-001	Finance Senior Sergeant	MOS-73Z-001 MOS-73Z-002
Electric Bass Player	MOS-02U-002 MOS-02U-003	Finance Specialist	MOS-73C-002 MOS-73C-003
Electronic Maintenance Chief	MOS-35W-001	Fire Control Instrument Repairer	MOS-41C-003 MOS-41C-004
Electronic Switching Systems Operator	MOS-31F-001	Fire Control Repairer	MOS-45G-001
Electronic Warfare (EW)/Signal Intelligence Voice Interceptor	MOS-98G-003	Fire Control System Repairer	MOS-45G-001
Electronic Warfare/Intercept Aerial Sensor Repairer	MOS-33V-001	Fire Support Specialist	MOS-13F-002
Electronic Warfare/Intercept Aviation Systems Repairer	MOS-33R-001	Firefighter	MOS-51M-002 MOS-51M-003 MOS-51M-004
Electronic Warfare/Intercept Strategic Processing/Storage Subsystems Repairer	MOS-33Q-001	Fixed Communications Security Equipment Repairer	MOS-29F-001
Electronic Warfare/Intercept Strategic Receiving Subsystems Repairer	MOS-33P-001	Fixed Wing Aviator (Aircraft Nonspecific)	MOS-155A-002
Electronic Warfare/Intercept Strategic Systems Analyst and Command and Control Subsystems Repairer	MOS-33M-001	Flute or Piccolo Player	MOS-02G-003 MOS-02G-004 MOS-02G-005
Electronic Warfare/Intercept Systems Maintenance Supervisor	MOS-33Z-002	Food Service Specialist	MOS-92G-001 MOS-94B-003 MOS-94B-004
Electronic Warfare/Intercept Tactical Systems Repairer	MOS-33T-001	Food Service Technician	MOS-922A-001 MOS-922A-002
Electronic Warfare/Signal Intelligence Emitter Identifier/Locator	MOS-05D-003	Forward Area Alerting Radar (FAAR) Repairer	MOS-27N-001
Electronic Warfare/Signal Intelligence Morse Interceptor	MOS-05H-003	Forward Area Alerting Radar Crewman	MOS-16J-002
Electronic Warfare/Signal Intelligence Non-Morse Interceptor	MOS-05K-003	French Horn Player	MOS-02D-003 MOS-02D-004 MOS-02D-005
Electronics Equipment Maintenance Chief	MOS-39X-001	Fuel and Electrical Systems Repair	MOS-63G-003
Electronics Maintenance Chief	MOS-29Z-001	Fuel and Electrical Systems Repairer	MOS-63G-002
Electronics Maintenance Supervisor	MOS-29W-002	General Aircraft Repairer	MOS-67A-001
Emanations Analysis Technician	MOS-352J-001	General Construction Equipment Operator	MOS-62J-002 MOS-62J-003
Emitter Location/Identification Technician	MOS-352D-001 MOS-352D-002	General Engineering Supervisor	MOS-51Z-001 MOS-51Z-002
Emitter Locator/Identifier	MOS-98D-001 MOS-98D-002	Graphics Documentation Specialist	MOS-25Q-001
Engineer Equipment Repair Technician	MOS-213A-001 MOS-919A-001	Graves Registration Specialist	MOS-57F-003 MOS-57F-004
Engineer Tracked Vehicle Crewman	MOS-12F-002		
Equipment Records and Parts Specialist	MOS-76C-001 MOS-76C-002		

Ground Surveillance Systems Operator	MOS-96R-001	Integrated Family of Test Equipment Operator/Maintainer	MOS-35Y-001
Guitar Player	MOS-02L-003 MOS-02L-004 MOS-02L-005	Intelligence Analyst	MOS-96B-002 MOS-96B-003
Hawk Continuous Wave Radar Repairer	MOS-24K-003 MOS-24K-004	Intelligence and Electronic Warfare (IEW) Equipment Technician	MOS-353A-001
Hawk Field Maintenance Equipment/Pulse Acquisition Radar Repairer	MOS-27J-001	Intelligence and Electronic Warfare Equipment Technician	MOS-353A-002
Hawk Fire Control Crew Member	MOS-16E-001	Intelligence Senior Sergeant	MOS-96Z-001 MOS-96Z-002
Hawk Fire Control Crewmember	MOS-16E-002	Interior Electrician	MOS-51R-003 MOS-51R-004
Hawk Fire Control Repairer	MOS-24H-003 MOS-24H-004	Interrogation Technician	MOS-351E-001 MOS-351E-002
Hawk Fire Control/Continuous Wave Radar Repairer	MOS-27K-001	Interrogator	MOS-97E-002 MOS-97E-003
Hawk Firing Section Mechanic	MOS-24C-002 MOS-24C-003	ITV/IFV/CFV System Mechanic	MOS-63T-001
Hawk Firing Section Repairer	MOS-27H-003	Journalist	MOS-46Q-001
Hawk Information Coordination Central Mechanic	MOS-24G-003 MOS-24G-004	Lance Crewmember	MOS-13N-001
Hawk Maintenance Chief	MOS-27V-001	Lance Missile System Technician	MOS-130B-001
Hawk Master Mechanic	MOS-24R-001 MOS-24R-002	Lance System Repairer	MOS-27L-001
Hawk Missile Crew Member	MOS-16D-001	Land Combat Electronic Missile System Repairer	MOS-27E-004
Hawk Missile Crewman	MOS-16D-001	Land Combat Electronic Missile System Repairer	MOS-27E-003
Hawk Missile Crewmember	MOS-16D-002	Land Combat Missile Systems Technician	MOS-912A-002
Hawk Missile System Crewmember	MOS-14D-001	Land Combat Support Missile Systems Technician	MOS-912A-001
Hawk Missile System Mechanic	MOS-23R-001	Land Combat Support System (LCCS) Missile Maintenance Chief	MOS-27Z-001
Hawk Missile System Technician	MOS-140D-002	Land Combat Support System Test Specialist	MOS-27B-003
Hawk Missile Systems Technician	MOS-140D-001	Land Combat Support System Test Specialist/Lance Repairer	MOS-27B-002
Health Physics Specialist	MOS-91X-001	Land Combat Support Systems Test Specialist	MOS-35B-001
Health Services Maintenance Technician	MOS-670A-002	Land Combat/Air Defense Systems Maintenance Chief	MOS-27Z-002
Heavy Antiarmor Weapons Crewman	MOS-11H-002 MOS-11H-003	Laundry and Bath Specialist	MOS-57E-002 MOS-57E-003
Heavy Construction Equipment Operator	MOS-62E-002 MOS-62E-003	Legal Administrator	MOS-550A-001 MOS-550A-002
Heavy Lift Helicopter Repairer	MOS-67X-003	Legal Specialist	MOS-71D-002 MOS-71D-003 MOS-71D-004
Heavy Lift Helicopter Technical Inspector	MOS-66X-001	Lifting and Loading Equipment Operator	MOS-62F-002
Heavy Wheel Vehicle Mechanic	MOS-63S-001 MOS-63S-002	Light Air Defense Artillery Crewman (Reserve Forces)	MOS-16F-001
High-to-Medium Altitude Air Defense Direct Support/General Support Maintenance Technician	MOS-916A-001	Light Air Defense Artillery Crewmember	MOS-16F-002
Hospital Food Service Specialist	MOS-91M-001 MOS-91M-002 MOS-94F-002	Light Track Systems Maintenance Technician	MOS-915B-001
Imagery Analyst	MOS-96D-003 MOS-96D-004	Light Wheel Vehicle Mechanic	MOS-63B-003 MOS-63B-004
Imagery Intelligence Technician	MOS-350D-001 MOS-350D-002	Line of Sight-Forward-Heavy Crewmember	MOS-14R-001
Improved Hawk Firing Section Mechanic	MOS-24C-002	Lithographer	MOS-81L-001
Improved Hawk Information Coordination Central Mechanic	MOS-24G-003	Locomotive Electrician	MOS-88S-001
Indirect Fire Infantryman	MOS-11C-003 MOS-11C-004	Locomotive Operator	MOS-88U-001
Infantry Senior Sergeant	MOS-11Z-002	Locomotive Repairer	MOS-88P-001
Infantryman	MOS-11B-004 MOS-11B-005	M1 Abrams Tank System Mechanic	MOS-63E-001
Information Systems Chief	MOS-74Z-002	M1 Abrams Tank Turret Mechanic	MOS-45E-002
Information Systems Operator	MOS-74D-004	M1 Armor Crewman	MOS-19K-002
Information Systems Operator-Analyst	MOS-74B-001	M48-M60 Armor Crewman	MOS-19E-002
		M48-M60A1/A3 Armor Crewman	MOS-19E-001
		M60A1/A3 Tank System Mechanic	MOS-63N-001 MOS-63N-002

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M60A1/A3 Tank Turret Mechanic	MOS-45N-002	Multichannel Communications Systems Operator . . .	MOS-31M-004
Machinist	MOS-44E-003 MOS-44E-004	Multichannel Transmission Systems Operator	MOS-31M-004
Man Portable Air Defense System (MANPADS) Crewman	MOS-16S-001	Multichannel Transmission Systems Operator/Maintainer	MOS-31R-001
Man Portable Air Defense System (MANPADS) Crewmember or Pedestal Mounted Stinger Crewmember	MOS-16S-002	Multimedia Illustrator	MOS-25M-001
Maneuver Forces Air Defense Systems Technician	MOS-917A-001	Multiple Launch Rocket System (MLRS) Repairer . . .	MOS-27M-001
Marine Deck Officer	MOS-880A-001 MOS-880A-002	Multiple Launch Rocket System Crewmember	MOS-13M-002 MOS-13M-003
Marine Engineering Officer	MOS-881A-001 MOS-881A-002	Multiple Launch Rocket System/Lance Operations/Fire Direction Specialist	MOS-13P-001 MOS-13P-002
Marine Senior Sergeant	MOS-88Y-001 MOS-88Y-002	Network Switching Systems Operator/Maintainer . . .	MOS-31F-001
Materials Quality Specialist	MOS-51G-002	Nike-Hercules Custodial Mechanic	MOS-24U-002
Materiel Control And Accounting Specialist	MOS-76P-003	Non-Morse Intercept Technician	MOS-352K-001 MOS-352K-002
Materiel Control and Accounting Specialist	MOS-76P-002	Non-Morse Interceptor/Analyst	MOS-98K-001
Materiel Storage and Handling Specialist	MOS-76V-002 MOS-76V-003	Noncommunications Interceptor/Analyst	MOS-98J-003 MOS-98J-004
Mechanical Maintenance Supervisor	MOS-63Z-002 MOS-63Z-003	Nuclear Medicine Specialist	MOS-91W-002 MOS-91W-003
Medical Equipment Repairer	MOS-91A-003	Nuclear Weapons Maintenance Specialist	MOS-55G-001
Medical Equipment Repairer, Advanced	MOS-35U-004	Nuclear Weapons Specialist	MOS-55G-002
Medical Equipment Repairer, Unit Level	MOS-35G-004	Nuclear Weapons Technician	MOS-911A-002 MOS-911A-003
Medical Laboratory Specialist	MOS-91K-001 MOS-92B-002 MOS-92B-003	Oboe Player	MOS-02H-003 MOS-02H-004 MOS-02H-005
Medical NCO	MOS-91B-004	Observation Airplane Repairer	MOS-67H-003
Medical Specialist	MOS-91A-002 MOS-91B-005 MOS-91B-006	Observation Airplane Technical Inspector	MOS-66H-001
Medical Supply Specialist	MOS-76J-003 MOS-76J-004	Observation/Scout Helicopter Repairer	MOS-67V-003
Medical Supplyman	MOS-76J-002	Observation/Scout Helicopter Technical Inspector . . .	MOS-66V-001
Medium Helicopter Technical Inspector	MOS-66U-001	Occupational Therapy Specialist	MOS-91L-003
Metal Worker	MOS-44B-003 MOS-44B-004	OH-58A/C Observation Pilot	MOS-153C-002
Meteorology Technician	MOS-132A-001	OH-58A/C Scout Pilot	MOS-152B-002
Microwave Systems Operator-Maintainer	MOS-31P-001 MOS-31P-002	OH-58D Helicopter Repairer	MOS-67S-001 MOS-67S-002
Microwave Systems Operator/Repairer	MOS-29V-002	OH-58D Scout Pilot	MOS-152D-002
Military Personnel Technician	MOS-420A-001 MOS-420A-002	OH-6 Scout Pilot	MOS-152C-002
Military Police	MOS-95B-004	Operating Room Specialist	MOS-91D-003 MOS-91D-004
Missile Systems Maintenance Chief	MOS-27Z-002	Optical Laboratory Specialist	MOS-42E-002 MOS-42E-003 MOS-42E-004
Mobile Subscriber Equipment Communications Chief	MOS-31W-002	Order of Battle Technician	MOS-350B-001
Mobile Subscriber Equipment Network Switching System Operator	MOS-31F-001	Orthopedic Specialist	MOS-91H-002 MOS-91H-003
Mobile Subscriber Equipment Transmission System Operator	MOS-31D-002	Orthotic Specialist	MOS-42C-002 MOS-42C-003
Morse Intercept Technician	MOS-352H-001 MOS-352H-002	OV-1/RV-1 Pilot	MOS-156A-002
Morse Interceptor	MOS-98H-001	Parachute Rigger	MOS-43E-002 MOS-43E-003 MOS-92R-001
Mortuary Affairs Specialist	MOS-57F-004 MOS-92M-001	Patient Administration Specialist	MOS-71G-002 MOS-71G-003
Motor Transport Operator	MOS-88M-001 MOS-88M-002	Patriot Missile Crewmember	MOS-16T-002 MOS-16T-003
Multi-Discipline Counter-Intelligence Operator/Analyst	MOS-97G-002	Patriot Missile System Technician	MOS-140E-001 MOS-140E-002
Multichannel Communications Equipment Operator	MOS-31M-003	Patriot Operator and System Mechanic	MOS-24T-002 MOS-24T-003

Patriot System Repairer	MOS-27X-001 MOS-27X-002	Quarrying Specialist	MOS-62G-002 MOS-62G-003
Patriot System Technician	MOS-140E-001	Quartermaster and Chemical Equipment Repairer	MOS-63J-003
Pedestal Mounted Stinger, Line of Sight Rear Air Defense Systems Repairer	MOS-27I-001	Radar Repairer	MOS-35M-001
Percussion Player	MOS-02M-003 MOS-02M-004 MOS-02M-005	Radar/Special Electronic Devices Maintenance Chief	MOS-39W-001
Pershing Electrical Mechanical Repairer	MOS-46N-003	Radio Operator-Maintainer	MOS-31C-001
Pershing Electronics Materiel Specialist	MOS-21G-004	Radio Repairer	MOS-29E-001 MOS-29E-002
Pershing Electronics Repairer	MOS-21L-002 MOS-21L-003	Radio/COMSEC Repairer	MOS-35E-001
Pershing Missile Crew Member	MOS-15E-003	Radiology Specialist	MOS-91P-004
Pershing Missile System Technician	MOS-130A-001	Railway Car Repairer	MOS-88Q-001
Personnel Actions Specialist	MOS-75E-003 MOS-75E-004	Railway Equipment Repairer (Reserve Components)	MOS-88P-002
Personnel Administration Specialist	MOS-75B-003	Railway Movement Coordinator	MOS-88W-001
Personnel Administrative Specialist	MOS-75B-004	Railway Operations Crewmember	MOS-88U-002
Personnel Information System Management Specialist	MOS-75F-001 MOS-75F-002 MOS-75F-003	Railway Section Repairer	MOS-88T-001
Personnel Management Specialist	MOS-75C-003 MOS-75C-004	Railway Section Repairer (Reserve Components)	MOS-88T-002
Personnel Records Specialist	MOS-75D-003 MOS-75D-004	Railway Senior Sergeant	MOS-88X-001
Personnel Sergeant	MOS-75Z-003 MOS-75Z-004	Record Information Systems Chief	MOS-74Z-002
Petroleum Laboratory Specialist	MOS-77L-001	Record Telecommunications Center Operator	MOS-74C-001
Petroleum Supply Specialist	MOS-77F-001	Record Telecommunications Operator	MOS-74C-001
Pharmacy Specialist	MOS-91Q-003 MOS-91Q-004	Recruiter	MOS-00E-002 MOS-79R-001
Photo and Layout Specialist	MOS-83E-003	Recruiter (Reserve Component)	MOS-00E-003 MOS-00E-004
Photomapping Technician	MOS-215A-001	Recruiter/Retention NCO	MOS-00R-001 MOS-00R-002 MOS-00R-003
Physical Therapy Specialist	MOS-91J-002 MOS-91J-003	Reenlistment NCO	MOS-79D-001
Physician Assistant	MOS-600A-001 MOS-600A-002	Reenlistment NCO (Reserve Components)	MOS-79D-002
Piano Player	MOS-02N-003 MOS-02N-004 MOS-02N-005	Remotely Piloted Vehicle Crewmember	MOS-13T-001
Plumber	MOS-51K-002 MOS-51K-003	Remotely Piloted Vehicle Technician	MOS-131B-001
Power Generation Equipment Repairer	MOS-52D-003	Repair Parts Technician	MOS-920B-001
Practical Nurse	MOS-91C-004	Reproduction Technician	MOS-215C-001
Preventive Medicine Specialist	MOS-91S-004 MOS-91S-005	Respiratory Specialist	MOS-91V-002 MOS-91V-003
Prime Power Production Specialist	MOS-52E-002 MOS-52E-003	Rotary Wing Aviator (Aircraft Nonspecific)	MOS-153A-002
Printing And Bindery Specialist	MOS-83F-003 MOS-83F-004	Satellite Communications (SATCOM) Systems Repairer	MOS-29Y-001 MOS-29Y-002
Printing and Bindery Specialist	MOS-83F-002	Satellite Communications Systems Operator-Maintainer	MOS-31S-004
Programmer/Analyst	MOS-74F-003	Satellite/Microwave Communications Chief	MOS-29T-001
Property Accounting Technician	MOS-920A-002	Satellite/Microwave Systems Chief	MOS-31T-004
Property Book Technician	MOS-920A-001	Saxophone Player	MOS-02L-003 MOS-02L-004 MOS-02L-005
Psychiatric Specialist	MOS-91F-002 MOS-91F-003	Scout Helicopter Technical Inspector	MOS-66S-001
Psychological Operations Specialist	MOS-37F-001 MOS-96F-001	Self-Propelled Field Artillery System Mechanic	MOS-63D-001 MOS-63D-002
Public Affairs Chief	MOS-46Z-001	Self-Propelled Field Artillery Turret Mechanic	MOS-45D-001 MOS-45D-002
		Senior Electronics Maintenance Chief	MOS-35Z-001
		Senior Noncommissioned Logistician	MOS-92Z-001
		Senior Signal Sergeant	MOS-31Z-003
		Senior Supply Sergeant	MOS-76Z-002
		Senior Supply/Service Sergeant	MOS-76Z-003
		SHORAD Systems Technician	MOS-140B-003
		Short Range Air Defense Artillery Crewman	MOS-16R-002

Signal Security Specialist	MOS-97G-001	Target Acquisition/Surveillance Radar Repairer	MOS-39C-001
Signal Support Systems Specialist	MOS-31U-002 MOS-31U-003	Technical Drafting Specialist	MOS-81B-003 MOS-81B-004
Signal Systems Maintenance Technician	MOS-256A-002	Technical Engineering Specialist	MOS-51T-003
Signals Intelligence Analyst	MOS-98C-003 MOS-98C-004	Technical Engineering Supervisor	MOS-51T-001 MOS-51T-002
Signals Intelligence/Electronic Warfare Chief	MOS-98Z-002	Telecommunications Computer Operator-Maintainer	MOS-74G-001
Single-Channel Radio Operator	MOS-31C-001	Telecommunications Operations Chief	MOS-31W-002
Small Arms Repairer	MOS-45B-002 MOS-45B-003	Telecommunications Systems Supervisor	MOS-31Y-001
Software/Analyst	MOS-74F-004	Telecommunications Technician	MOS-250A-001
Special Bandmember	MOS-02S-004 MOS-02S-005	Telecommunications Terminal Device Repairer	MOS-35J-001
Special Bandsperson	MOS-02S-003	Teletypewriter Equipment Repairer	MOS-29J-001
Special Duty Assignment	MOS-00D-001	Terrain Analysis Technician	MOS-215D-001
Special Electronic Devices Repairer	MOS-35F-001 MOS-39E-001	Terrain Analyst	MOS-81Q-002 MOS-81Q-003
Special Forces Communications Sergeant	MOS-18E-001	Test Measurement and Diagnostic Equipment (TMDE) Technician	MOS-252A-001
Special Forces Engineer Sergeant	MOS-18C-001	Test, Measurement, and Diagnostic Equipment (TM- DE) Maintenance Support Technician	MOS-918A-001
Special Forces Intelligence Sergeant	MOS-18F-001	Test, Measurement, and Diagnostic Equipment Mainte- nance Support Specialist	MOS-35H-004 MOS-35H-005
Special Forces Medical Sergeant	MOS-18D-001	Topographic Engineering Supervisor	MOS-81Z-001 MOS-81Z-002
Special Forces Senior Sergeant	MOS-18Z-001	Topographic Instrument Repair Specialist	MOS-41B-002
Special Forces Weapons Sergeant	MOS-18B-001	Topographic Surveyor	MOS-82D-002 MOS-82D-003
Special Operations Communications Sergeant	MOS-18E-001	TOW/Dragon Missile Electronics Repairer	MOS-27E-003
Special Operations Engineer Sergeant	MOS-18C-001	TOW/Dragon Repairer	MOS-27E-002 MOS-27E-003
Special Operations Intelligence Sergeant	MOS-18F-001	Track Vehicle Mechanic	MOS-63Y-001 MOS-63Y-002
Special Operations Medical Sergeant	MOS-18D-001	Track Vehicle Repairer	MOS-63H-004 MOS-63H-005
Special Operations Senior Sergeant	MOS-18Z-001	Traffic Analysis Technician	MOS-352C-001 MOS-352C-002
Special Operations Technician	MOS-180A-001	Traffic Management Coordinator	MOS-88N-001 MOS-88N-002 MOS-88N-003
Special Operations Weapons Sergeant	MOS-18B-001	Train Crew Member	MOS-88V-001
Special Purpose Equipment Repairer	MOS-52X-001	Translator/Interpreter	MOS-97L-001
Still Documentation Specialist	MOS-25S-001	Transmission and Distribution Specialist	MOS-52G-001
Strategic Microwave Systems Repairer	MOS-29V-001	Transportable Automatic Switching Systems Operator/ Maintainer	MOS-36L-003
Strategic Systems Repairer	MOS-33Y-001	Transportation Senior Sergeant	MOS-88Z-001 MOS-88Z-002
Subsistence Supply Specialist	MOS-76X-002 MOS-76X-003	Trombone Player	MOS-02E-003 MOS-02E-004 MOS-02E-005
Supply Systems Technician	MOS-920B-002	Trumpet Player	MOS-02B-003
Support/Staff Maintenance Technician	MOS-915E-001 MOS-915E-002	Tuba Player	MOS-02F-003 MOS-02F-004 MOS-02F-005
Surveillance Radar Repairer	MOS-35C-001	Turbine Engine Driven Generator Repairer	MOS-52F-001
Survey Technician	MOS-215B-001	U-21 Pilot	MOS-155D-002
Switching Central Repairer	MOS-29N-001 MOS-29N-002 MOS-29N-003	UH-1 Helicopter Repairer	MOS-67N-003
TACFIRE Operations Specialist	MOS-13C-002	UH-1 Pilot	MOS-153B-002
Tactical Automated Network Technician	MOS-250B-001	UH-60 Helicopter Repairer	MOS-67T-002
Tactical Communication Chief	MOS-31G-002	UH-60 Pilot	MOS-153D-002
Tactical Computer Systems Repairer	MOS-39T-001	Unit Level Communications Maintainer	MOS-31V-002
Tactical Satellite/Microwave Repairer	MOS-29M-001		
Tactical Satellite/Microwave Systems Operator	MOS-31Q-001		
Tactical Systems Repairer	MOS-33T-001		
Tactical Transport Helicopter Technical Inspector	MOS-66T-001		
Tank Turret Mechanic	MOS-45N-001		
Tank Turret Repairer	MOS-45K-003 MOS-45K-004		
Target Acquisition Radar Technician	MOS-131A-001 MOS-131A-002		

Unit Maintenance Technician (Heavy)	MOS-915D-002
Unit Supply Specialist	MOS-76Y-002
	MOS-76Y-003
	MOS-92Y-001
	MOS-92Y-002
Unmanned Aerial Vehicle Operator	MOS-96U-001
Utilities Equipment Repairer	MOS-52C-004
	MOS-52C-005
Utilities Operation and Maintenance Technician	MOS-210A-001
Utility Airplane Repairer	MOS-67G-003
Utility Airplane Technical Inspector Utility/Cargo Airplane Technical Inspector	MOS-66G-001
Utility Helicopter Repairer	MOS-67N-002
Utility Helicopter Technical Inspector	MOS-66N-001
Veterinary Food Inspection Specialist	MOS-91R-003
Veterinary Services Technician	MOS-640A-001
Veterinary Specialist	MOS-91R-002
Visual Information Chief	MOS-25Z-002
Visual Information/Audio Documentation Systems Specialist	MOS-25P-001
Visual Information/Audio Equipment Repairer	MOS-25R-001
Voice Intercept Technician	MOS-352G-001
	MOS-352G-002
Voice Interceptor	MOS-98G-004
	MOS-98G-005
Vulcan Crewmember	MOS-16R-003
Vulcan Repairer	MOS-27F-002
	MOS-27F-003
Vulcan System Mechanic	MOS-24M-002
	MOS-24M-003
Water Treatment Specialist	MOS-77W-001
Watercraft Engineer	MOS-88L-001
	MOS-88L-002
Watercraft Operator	MOS-88K-001
	MOS-88K-002
Wheel Vehicle Maintenance Technician	MOS-915A-001
Wheel Vehicle Maintenance Technician (Light)	MOS-915A-002
Wheel Vehicle Repairer	MOS-63W-001
	MOS-63W-002
Wire Systems Equipment Repairer	MOS-35N-001
Wire Systems Installer	MOS-31L-002
Wire Systems Operator	MOS-36M-001
X-Ray Specialist	MOS-91P-003
XM1 Armor Crewman	MOS-19K-001
XM1 Tank System Mechanic	MOS-63E-001
XM1 Tank Turret Mechanic	MOS-45E-001

Keyword Index

This index is designed to provide access to the courses listed in the course exhibit sections of this volume. Course titles are arranged alphabetically under keywords extracted directly from the titles. For example, the keyword *Dental* is followed by all course titles containing that word.

To use this index:

- Identify a word (or group of words) that appears to be unique or descriptive.
- Locate the keyword(s) in this index.
- If the keyword or the course title cannot be found, identify another descriptive word in the title and try again.
- When the course title is found, note the exhibit ID number to the right of the title. Locate that number in the course exhibit section.

Course exhibits are grouped by military service, using the following prefixes: **AF:** Air Force; **AR:** Army; **CG:** Coast Guard; **DD:** Department of Defense; **MC:** Marine Corps; and **NV:** Navy.

30 Ton

Lighter Air-Cushion 30 Ton Subsystem
AR-1704-0211

Lighter Air-Cushion Vehicle 30 Ton Introduction and Theory
AR-1704-0213

Lighter Air-Cushion Vehicle 30 Ton Operator
AR-1704-0210

Lighter Air-Cushion Vehicle 30 Ton Propulsion System
AR-1710-0178

Abrams

Abrams/Bradley Supervisor Diagnostics
AR-1710-0158

Basic Noncommissioned Officer (NCO) M6OA1/M6OA3 19K M1 Abrams
AR-2201-0325

M1 Abrams Fuel and Electrical Systems Repairer
AR-1714-0029

M1 Abrams Tank Fire Control Systems Repairer
AR-1710-0101

M1 Abrams Tank Recovery Specialist
AR-1710-0135

M1 Abrams Tank System Mechanic Basic Noncommissioned Officer (NCO)
AR-1703-0040

M1 Abrams Tank System Mechanic Noncommissioned Officer (NCO) Advanced
AR-1710-0131

M1 Abrams Tank Systems Mechanic
AR-1704-0142

M1 Abrams Tank Turret Mechanic
AR-1703-0050

M1 Abrams Tank Turret Repair
AR-1710-0104

M1 Abrams Tank Vehicle Repairer
AR-1710-0113

M1/M1A1 Abrams Armor Crewman
AR-2201-0330

M1/M1A1 Abrams Master Gunner
AR-2201-0328

M1/M1A1 Abrams Master Gunner Transition
AR-2201-0329

Abuse

Alcohol and Drug Abuse Prevention and Control Program
AR-0801-0035

Access

Secure Voice Access System Repair
AR-1715-0195

Accident

Traffic Accident Investigation
AR-1728-0078

Accounting

Accounting Specialist
AR-1401-0041

Ammunition Stock Control and Accounting Specialist
AR-1405-0155

Ammunition Stock Control and Accounting Specialist Basic Noncommissioned Officer (NCO)
AR-1402-0086
AR-1402-0143

Ammunition Stock Control and Accounting Specialist Basic Noncommissioned Officer (NCO) Reserve
AR-2201-0397

Ammunition Stock Control and Accounting Specialist Basic Technical
AR-1402-0086

Ammunition Stock Control and Accounting Specialist Reserve
AR-1405-0229

Army Management Accounting and Analysis
AR-1401-0051

Central Accounting Officer
AR-1401-0036

Cost Accounting Standards Workshop
AR-1401-0021

Defense Reutilization and Marketing Property Accounting
AR-1405-0116
AR-1405-0243

Department of Defense (DOD) Cost Accounting Standards Workshop
AR-1401-0021

Finance/Accounting Advanced Noncommissioned Officer (NCO)
AR-1401-0050

Finance/Accounting Basic Noncommissioned Officer (NCO)
AR-1401-0035

Materiel Control and Accounting Specialist Advanced Individual Training
AR-1401-0032

Materiel Control and Accounting Specialist Advanced Noncommissioned Officer (NCO)
AR-1405-0178

Materiel Control and Accounting Specialist Basic Noncommissioned Officer (NCO)
AR-1405-0161

Military Accounting
AR-1401-0034

Property Accounting Technician Quartermaster Warrant Officer Technical/Tactical Certification
AR-1405-0185

Property Accounting Technician Senior Warrant Officer
AR-1405-0187

Property Accounting Technician Senior Warrant Officer Reserve Component
AR-1405-0184

Property Accounting Technician Warrant Officer Advanced
AR-1405-0184
AR-1405-0187

Property Accounting Technician Warrant Officer Basic
AR-1405-0185

Supply Accounting Management Information System
AR-1402-0136

Accounts

Commercial Accounts Administration
AR-1401-0048

Acquisition

Defense Acquisition Radar Operator
AR-1715-0808

Digital Radio and Multiplexer Acquisition (DRAMA) Communications Systems Repair
AR-1715-0665

Digital Radio Multiplexer Acquisition (DRAMA)
AR-1715-0665

Hawk Field Maintenance Equipment/Pulse Acquisition Radar Repairer
AR-1715-0745

Hawk Field Maintenance Equipment/Pulse Acquisition Radar Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0742

Hawk Pulse Acquisition Radar Mechanic
AR-1715-0961

Intermediate Acquisition Logistics
AR-0326-0055

Management of Acquisition Contracts Advanced
AR-0326-0010

- Management of Defense Acquisition Contracts Advanced
AR-0326-0010
- Management of Defense Acquisition Contracts Basic
AR-0326-0053
- Management of Defense Acquisition Contracts Basic by Correspondence
AR-0326-0054
- Materiel Acquisition Management
AR-1408-0122
- Materiel Acquisition Management for Reserve Components, Phases 2 and 4
AR-1405-0226
- Materiel Acquisition Management, Phases 1, 2, 3, 4, for Reserve Components
AR-1405-0226
- Target Acquisition Radar Technician
AR-1715-0558
- Target Acquisition Radar Technician Warrant Officer Advanced
AR-1402-0111
- Target Acquisition Radar Technician Warrant Officer Technical Certification
AR-1715-0840
- Target Acquisition Radar Technician Warrant Officer Technical Certification (Reserve Component)
AR-1715-0841
- Target Acquisition Radar Technician-Warrant Officer Technical Certification
AR-1715-0558
- Target Acquisition/Surveillance Radar Repairer
AR-1715-0839
- Target Acquisition/Surveillance Radar Repairer Basic Noncommissioned Officer (NCO)
AR-1408-0170
- Actions**
- Personnel Actions Specialist Basic Noncommissioned Officer (NCO)
AR-1406-0150
- Activities**
- Chapel Activities Specialist
AR-1402-0087
- Chapel Activities Specialist Basic Noncommissioned Officer (NCO)
AR-1408-0139
- Commercial Activities Process
AR-1408-0121
- Commercial Activities Review Process
AR-1408-0121
- Ada**
- Ada Programming Language
AR-1402-0147
- Software Engineering and Ada
AR-1402-0144
- Adjutant**
- Adjutant General Officer Advanced
AR-1408-0168
- Adjutant General Officer Advanced (Company Command Module) Reserve Component Phase 1
AR-1408-0201
- Adjutant General Officer Basic
AR-1408-0200
- Administration**
- Commercial Accounts Administration
AR-1401-0048
- Corrections Administration
AR-1728-0074
- Patient Administration
AR-0709-0036
- Patient Administration Reserve Component (Nonresident Resident)
AR-0709-0043
- Patient Administration Specialist
AR-1403-0010
- Patient Administration Specialist Reserve Phase 2
AR-0709-0048
- Personnel Administration Specialist
AR-1406-0105
- Personnel Administration Specialist Basic Noncommissioned Officer (NCO)
AR-1406-0153
- Personnel Administration Specialist Basic Noncommissioned Officer (NCO)
AR-1406-0100
- Principles of Advanced Nursing Administration
AR-0703-0022
- Principles of Advanced Nursing Administration for Army Nursing Corps Officers
AR-0703-0022
- Travel Administration and Entitlements
AR-1401-0049
- Unit Administration
AR-1408-0171
- Unit Records Administration
AR-1408-0173
- Administrative**
- Administrative Officer
AR-1408-0182
- Administrative Senior Warrant Officer Advanced
AR-1408-0167
- Administrative Senior Warrant Officer Reserve Component
AR-1406-0154
- Administrative Specialist
AR-1403-0007
- Administrative Specialist Advanced Noncommissioned Officer (NCO)
AR-1408-0169
- Administrative Specialist Basic Noncommissioned Officer (NCO) (71L30)
AR-1408-0164
- Administrative Warrant Officer Advanced
AR-1408-0167
- Executive Administrative Assistant
AR-1407-0008
- Executive Administrative Assistant/Administrative Specialist Basic Noncommissioned Officer (NCO)
AR-1408-0164
- Advanced**
- Advanced Dental Laboratory Specialist
AR-0701-0019
- Air Defense Artillery Advanced Noncommissioned Officer (NCO)
AR-1406-0168
- Air Defense Artillery Officer Advanced
AR-1408-0217
- Air Defense Artillery Officer Advanced - Reserve
AR-2201-0423
- Air Defense Artillery Officer Advanced Shorad Follow-On
AR-2201-0420
- Army Medical Department (AMEDD) Noncommissioned Officer (NCO) Advanced
AR-0799-0028
- Avionic Maintenance Supervisor Advanced Noncommissioned Officer (NCO) Reserve
AR-1715-0966
- Combined Logistic Officer Advanced, Phase 2
AR-1408-0220
- Field Artillery Officer Advanced
AR-1408-0213
- Infantry Officer Advanced Reserve Component
AR-2201-0437
- Infantryman Advanced Noncommissioned Officer (NCO)
AR-2201-0452
- Advocacy**
- Family Advocacy Staff Training
AR-1512-0011
- Advocate**
- Judge Advocate General Officer Basic Phase 1
AR-1728-0114
- Aerial**
- Aerial Delivery and Materiel Officer
AR-1733-0002
- Aerial Electronic Warning/Defense Equipment Repairer
AR-1715-0500
- Aerial Intelligence Specialist
AR-1606-0208
- Aerial Intelligence Specialist Basic Noncommissioned Officer (NCO)
AR-1606-0203
- Aerial Sensor Specialist (OV-1D)
AR-1709-0010
- Electronic Warfare (EW)/Intercept Aerial Sensor Repairer
AR-1715-0713
- Electronic Warfare (EW)/Intercept Aerial Sensor Repairer Basic Noncommissioned Officer (NCO) Phase 2
AR-1715-0890
- Electronic Warfare (EW)/Intercept Aerial Sensor Repairer Phase 2
AR-1715-0869
- Fabrication of Aerial Delivery Loads
AR-1733-0009
- OH-58 A/C Field Artillery Aerial Observer
AR-1606-0188
- OH-58D Field Artillery Aerial Fire Support Observer
AR-1402-0112
- OH-58D Field Artillery Aerial Observer
AR-1606-0169
- Aeromedical**
- Aeromedical Evacuation Officer
AR-0799-0018
- Aeroscout**
- Aeroscout Observer
AR-1606-0186
- Aeroscout Observer Basic Noncommissioned Officer (NCO)
AR-1606-0187
- OH-58 Aeroscout Instructor Pilot Methods of Instruction
AR-1606-0165
- Aerospace**
- Aerospace Medicine Residency Flight Training
AR-1606-0163
- AH-1**
- AH-1 Aircraft Armament Maintenance Technician
AR-1715-0887
- AH-1 Attack Helicopter Repairer
AR-1704-0095
- AH-1 Attack Helicopter Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0153
- AH-1 Attack Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0153

- Air Traffic Control Systems, Subsystems, and Equipment Repairer Supervisor
Advanced Noncommissioned Officer (NCO)
AR-1704-0172
- Tactical Air Traffic Control Systems, Subsystems, and Equipment Repairer
AR-1715-0787
- Air-Cushion**
- Lighter Air-Cushion 30 Ton Subsystem
AR-1704-0211
- Lighter Air-Cushion Vehicle 30 Ton Introduction and Theory
AR-1704-0213
- Lighter Air-Cushion Vehicle 30 Ton Operator
AR-1704-0210
- Lighter Air-Cushion Vehicle 30 Ton Propulsion System
AR-1710-0178
- Lighter Air-Cushion Vehicle Maintenance Technician
AR-1704-0144
- Lighter Air-Cushion Vehicle Navigator
AR-2205-0002
- Lighter Air-Cushion Vehicle Operator
AR-1704-0133
- Lighter Air-Cushion Vehicle Supervisor
AR-1704-0209
- Airborne**
- Airborne
AR-2201-0455
- Airborne Laser Tracker (ALT) Maintenance Repairer
AR-1704-0157
- Aircraft**
- AH-1 Aircraft Armament Maintenance Technician
AR-1715-0887
- AH-64 Aircraft Armament Maintenance Technician
AR-1704-0183
- AH-64 Aircraft Armament/Missile Systems Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0192
- AH-64 Aircraft Electrical Repairer
AR-1714-0032
- AH-64 Aircraft Pneudraulics Repairer
AR-1704-0197
- AH-64 Aircraft Powertrain Repairer
AR-1704-0180
- AR-1704-0198
- Aircraft Armament Maintenance Technician
AR-1704-0062
- Aircraft Armament Missile Systems Repairer
AR-1704-0159
- Aircraft Armament Technical Inspector
AR-1704-0146
- Aircraft Armament/Missile Systems Repairer
AR-1714-0031
- Aircraft Armament/Missile Systems Repairer Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0167
- Aircraft Armament/Missile Systems Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0193
- Aircraft Component Repairer Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0166
- Aircraft Electrician
AR-1704-0075
- Aircraft Electrician Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0108
- Aircraft Electrician Repairer Basic Technical
AR-1704-0108
- Aircraft Electrician Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0108
- AR-1704-0182
- Aircraft Fire Control Repairer Basic Technical
AR-1704-0119
- Aircraft Fire Control Systems Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0167
- Aircraft Fire Control Systems Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0147
- Aircraft Maintenance (CMF 67) Advanced Noncommissioned Officer (NCO) Reserve
AR-1704-0196
- Aircraft Pseudraulic Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0114
- AR-1704-0187
- Aircraft Pseudraulics Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0114
- Aircraft Pseudraulics Repairer Basic Technical
AR-1704-0114
- Aircraft Powerplant Repairer
AR-1704-0186
- Aircraft Powerplant Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0106
- Aircraft Powerplant Repairer Basic Technical
AR-1704-0106
- Aircraft Powerplant Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0106
- Aircraft Powertrain Repair
AR-1704-0012
- Aircraft Powertrain Repairer
AR-1704-0012
- Aircraft Powertrain Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0107
- Aircraft Powertrain Repairer Basic Technical
AR-1704-0107
- Aircraft Powertrain Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0185
- Aircraft Structural Repairer
AR-1704-0207
- Aircraft Structural Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0109
- Aircraft Structural Repairer Basic Technical
AR-1704-0109
- Aircraft Structural Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0184
- Aircraft Structure Repair
AR-1704-0100
- Aircraft/Armament/Missile Systems Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0147
- Apprentice Aircraft Mechanic (AIT)
AR-1704-0190
- Apprentice Aircraft Metals Technology Specialist
AR-1717-0162
- OH-58D Aircraft Electrical Repairer
AR-1714-0033
- Special Electronic Mission Aircraft (SEMA) Common Core
AR-1715-0871
- Airdrop**
- Airdrop Systems Technician Senior Warrant Officer Training (Technical/Tactical Certification)
AR-1408-0156
- Airdrop Systems Technician Warrant Officer Technical/Tactical Certification
AR-1733-0010
- Airdrop Systems Warrant Officer Basic
AR-1733-0010
- Airplane**
- Observation Airplane Repairer
AR-1704-0038
- Observation Airplane Repairer Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0200
- OV-1 Airplane Repair
AR-1704-0038
- OV-1 Observation Airplane Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0149
- OV-1 Observation Airplane Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0149
- OV-1 Observation Airplane Technical Inspector
AR-1704-0161
- Utility/Cargo Airplane Repairer Basic Technical
AR-1704-0115
- Utility/Cargo and Observation Airplane Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0160
- Alcohol**
- Alcohol and Drug Abuse Prevention and Control (ADAPCP) Family Counseling
AR-1512-0024
- Alcohol and Drug Abuse Prevention and Control Program Advanced Counseling Skills
AR-1512-0012
- Alcohol and Drug Abuse Prevention and Control Program Alcohol and Drug Control Officer
AR-0801-0015
- Alcohol and Drug Abuse Prevention and Control Program Clinical Director/Clinical Consultant
AR-0801-0014
- Alcohol and Drug Abuse Prevention and Control Program Family Counseling
AR-1512-0013
- Alcohol and Drug Abuse Prevention and Control Program Group Counseling Skills
AR-1512-0014
- Alcohol and Drug Prevention and Control Program Individual Counseling Skills
AR-1512-0015
- Army Drug and Alcohol Rehabilitation
AR-0801-0007
- Army Drug and Alcohol Rehabilitation Training Group
AR-0801-0007
- Drug and Alcohol Rehabilitation Training Individual
AR-0801-0025

Alerting

Forward Area Alerting Radar (FAAR) Operator
AR-1715-0808

Forward Area Alerting Radar (FAAR) Organizational Maintenance
AR-1715-0585

Forward Area Alerting Radar (FAAR) Repair
AR-1715-0169

Forward Area Alerting Radar (FAAR) Repairer
AR-1715-0169

Forward Area Alerting Radar (FAAR) Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0642

Alignment

FM Radio Alignment
AR-1715-0554

Radio and Repair Alignment
AR-1715-0554

Tactical All-Source Intelligence Officer Force Alignment Plan 3
AR-1728-0087

Allied

Allied Trades Technician Senior Warrant Officer
AR-1717-0099

Allied Trades Technician Warrant Officer Technical/Tactical Certification
AR-1710-0115

Allowances

Army Medical Department (TDA) Table of Distribution and Allowances Pre-command
AR-0709-0044

Standard Property Book System-Redesigned-Installation/Table of Distribution and Allowances
AR-1405-0166

AMEDD

AMEDD Reserve Component Officer Advanced (Phase 2)
AR-0799-0015

Army Medical Department (AMEDD) Aviator Advanced
AR-0799-0021

Army Medical Department (AMEDD) Basic Noncommissioned Officer (NCO)
AR-0104-0012

Army Medical Department (AMEDD) Basic Noncommissioned Officer (NCO) (42D)
AR-0701-0017

Army Medical Department (AMEDD) Basic Noncommissioned Officer (NCO) (76J)
AR-0799-0026

Army Medical Department (AMEDD) Basic Noncommissioned Officer (NCO) (91R)
AR-1729-0048

Army Medical Department (AMEDD) Battalion/Brigade Pre-Command
AR-2201-0271

Army Medical Department (AMEDD) Clinical Head Nurse
AR-0703-0021

Army Medical Department (AMEDD) Noncommissioned Officer (NCO) (91M)
AR-1729-0049

Army Medical Department (AMEDD) Noncommissioned Officer (NCO) Advanced
AR-0799-0027

Army Medical Department (AMEDD) Noncommissioned Officer (NCO) Basic
AR-0701-0018
AR-1408-0068
AR-1408-0203

Army Medical Department (AMEDD) Noncommissioned Officer (NCO) Basic (91B)
AR-0709-0049

Army Medical Department (AMEDD) Noncommissioned Officer (NCO) Basic (91E)
AR-0701-0018

Army Medical Department (AMEDD) Noncommissioned Officer (NCO) Basic (92B)
AR-0702-0017

Army Medical Department (AMEDD) Officer Advanced
AR-0326-0042

Army Medical Department (AMEDD) Officer Basic
AR-0707-0010
AR-0707-0023

Army Medical Department (AMEDD) Officer Basic Health Professions Scholarship Program
AR-0801-0008

Army Medical Department (AMEDD) Officer Basic, Phase 1 and Phase 2
AR-0707-0019

Army Medical Department (AMEDD) Officers Basic, Phases 1 and 2
AR-0707-0019

Army Medical Department (AMEDD) Reserve Component Officer Advanced
AR-0799-0015

Army Medical Department (AMEDD) Table of Distribution (TDA) Deputy Commander for Clinical Services
AR-0799-0025

Army Medical Department Officer (AMEDD) Advanced
AR-0326-0042

Army Medical Department Officer (AMEDD) Basic Uniformed Services University of Health Sciences
AR-1408-0104

Essential Medical Training for Army Medical Department (AMEDD) Aviators
AR-0799-0018

Orientation to Army Medical Department (AMEDD) Pharmacy Services
AR-0709-0041

Ammunition

Ammunition Advanced Noncommissioned Officer (NCO)
AR-2201-0398

Ammunition Inspector
AR-2201-0056
AR-2201-0390

Ammunition Inspector Advanced Noncommissioned Officer (NCO)
AR-2201-0393

Ammunition Noncommissioned Officer (NCO)
AR-2204-0086

Ammunition Specialist
AR-2201-0022
AR-2201-0389

Ammunition Specialist (Phase 2) Basic Noncommissioned Officer (NCO) Reserve
AR-1715-0896

Ammunition Specialist (Phase 3) Basic Noncommissioned Officer (NCO) Reserve
AR-1715-0896

Ammunition Specialist Advanced Noncommissioned Officer (NCO) Reserve
AR-2201-0395

Ammunition Specialist Basic Noncommissioned Officer (NCO)
AR-2201-0392

Ammunition Specialist Reserve Component Phase 2
AR-2201-0396

Ammunition Specialist Reserve, Phase 2
AR-1710-0165

Ammunition Stock Control and Accounting Specialist
AR-1405-0155

Ammunition Stock Control and Accounting Specialist Basic Noncommissioned Officer (NCO)
AR-1402-0086
AR-1402-0143

Ammunition Stock Control and Accounting Specialist Basic Noncommissioned Officer (NCO) Reserve
AR-2201-0397

Ammunition Stock Control and Accounting Specialist Basic Technical
AR-1402-0086

Ammunition Stock Control and Accounting Specialist Reserve
AR-1405-0229

Ammunition Storage
AR-2201-0022

Ammunition Technician Senior Warrant Officer
AR-0802-0022

Ammunition Technician Senior Warrant Officer Reserve (Phase 1 and 2)
AR-1408-0198

Ammunition Technician Technical and Tactical Certification
AR-0802-0021

Ammunition Technician Warrant Officer Advanced
AR-0802-0022

Ammunition Technician Warrant Officer Technical and Tactical Certification Reserve (Phase 2 and 4)
AR-2201-0394

Ammunition Warrant Officer Entry (Ammunition Manager)
AR-2204-0085

Military Ammunition Inspector
AR-2201-0056

Special Ammunition Security
AR-1728-0064

Standard Army Ammunition System (SAAS) Manager Training
AR-1405-0160

AN/ALQ-151(V)2

Special Purpose Countermeasures System AN/ALQ-151(V)2 Operator
AR-1715-0892

AN/ASN-86

Inertial Navigation Set AN/ASN-86 Repair
AR-1715-0688

AN/FSC-78/79

Satellite Communications (SATCOM) Terminal AN/FSC-78/79 and AN/GSC-39
AR-1715-0702

AN/FSQ-133

Tracechain AN/FSQ-133 Special Purpose Receiving System Maintenance
AR-1715-0733

AN/GSC-39

Satellite Communications (SATCOM) Terminal AN/FSC-78/79 and AN/GSC-39
AR-1715-0702

AN/GSC-49

Satellite Communications (SATCOM) Terminal AN/GSC-49
AR-1715-0701

AN/GSC-52(V)

Satellite Communications (SATCOM) Terminal AN/GSC-52(V)
AR-1715-0774

AN/MS-64

Satellite Communications (SATCOM) Terminal AN/MS-64 General Support Maintenance
AR-1715-0607

USAF Organizational/Intermediate Maintenance of the AN/MS-64 Satellite Communications (SATCOM) Terminal
AR-1715-0673

AN/MSM-105(V)1

Intermediate Level Maintenance of AN/MSM-105(V)1
AR-1715-0761

AN/TPQ-29

Radar Engagement Simulator AN/TPQ-29
AR-1715-0300

AN/TSC-54

Satellite Communications (SATCOM) Terminal AN/TSC-54 Repair
AR-1715-0047

AN/TSC-85()

Satellite Communications Terminal AN/TSC-85()/TSC-93() Repairer
AR-1715-0926

AN/TSQ-138

AN/TSQ-138 Trailblazer Operator
AR-1715-0789

AN/TSQ-73

AN/TSQ-73 Air Defense Artillery (ADA) Command and Control System Operator/Maintainer
AR-1715-0820

AN/TSQ-73 Air Defense Artillery (ADA) Command and Control System Operator/Repairer
AR-1715-0820

AN/TSQ-73 Air Defense Artillery (ADA) Command and Control System Operator/Repairer
AR-1715-0820

AN/TTC-39(V)

AN/TTC-39(V) Operator (USAF)
AR-1715-0708

AN/TTC-39A

AN/TTC-39A O/I Maintenance
AR-1715-0768

AN/TYC-39

Automatic Message Switching Central (AN/TYC-39)
AR-1402-0078

Automatic Message Switching Central AN/TYC-39(V)
AR-1402-0078

AN/TYC-39(V)

AN/TYC-39(V) I/O Maintenance (USAF)
AR-1715-0767

AN/TYC-39(V) Operator (USAF)
AR-1715-0693

Automatic Message Switching Central AN/TYC-39(V)
AR-1402-0078

AN/UGC-74

AN/UGC-74 Operator
AR-1404-0029

AN/UGC-74 Teletypewriter Direct Support Maintenance
AR-1715-0556

AN/UGC-74 Teletypewriter General Support Maintenance
AR-1715-0555

AN/USC-28(V)

Satellite Communications (SATCOM) AN/USC-28(V) Set
AR-1715-0853

Analysis

Army Management Accounting and Analysis
AR-1401-0051

Business Systems Analysis
AR-1402-0048

Cost Analysis for Decision Making
AR-1408-0056

Decision Analysis for Logisticians
AR-0326-0013

Decision Risk Analysis
AR-0326-0012

Decision Risk Analysis for Logisticians
AR-0326-0013

Defense Basic Logistic Support Analysis
AR-0326-0056

Emanations Analysis Technician Warrant Officer Technical/Tactical Certification
AR-1408-0136

Emanations Analysis Technician Warrant Officer Technical/Tactical Certification (WOTTC) - RC, Phases 2 and 3
AR-1408-0205

Foreign Instrumentation Signals Externals Analysis
AR-1715-0729

Introduction to Operations Research Systems Analysis by Correspondence
AR-1115-0014

Job and Task Analysis (ISD Phase 1)
AR-1406-0057

Logistics Support Analysis
AR-0326-0056

Nuclear and Chemical Target Analysis
AR-0802-0025

Operations Research and Systems Analysis (ORSA) Familiarization by Correspondence
AR-1115-0014

Operations Research Systems Analysis (ORSA) Military Skills Development
AR-1402-0138

Operations Research Systems Analysis Military Applications (ORSA MAC), Phases 1 and 2
AR-1402-0164

Operations Research Systems Analysis Military Applications 1 (ORSA MAC 1)
AR-1402-0139

Operations Research Systems Analysis Military Applications 2 (ORSA MAC 2)
AR-1402-0140

Structured Systems Analysis and Design
AR-1402-0108

Technical Control and Analysis Center Operator, AN/TSQ-130 (V)
AR-1402-0089

Telemetry Internals Analysis
AR-1715-0731

Traffic Analysis Technician Warrant Officer Technical Certification
AR-1408-0137

Traffic Analysis Technician Warrant Officer Technical/Tactical Certification (Reserve Component) Phases 1 and 2
AR-1404-0043

Traffic Analysis Technician Warrant Officer Technical/Tactical Certification Phase 2
AR-1408-0137

Analyst

Advanced Identification Techniques Analyst
AR-2201-0317

Electronic Processing and Dissemination System Operator/Analyst
AR-1402-0141

Electronic Warfare (EW) Analyst
AR-2201-0313

Electronic Warfare (EW)/Intercept Strategic Systems Analyst and Command and Control Subsystems Repairer
AR-1715-0720

Electronic Warfare (EW)/Intercept Strategic Systems Analyst and Command and Control Subsystems Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0721

Electronic Warfare (EW)/Signal Intelligence (SIGINT) Noncommunications Interceptor Analyst Basic Noncommissioned Officer (NCO)
AR-1715-0726

Electronic Warfare (EW)/Signals Intelligence (SIGINT) Analyst Basic Noncommissioned Officer (NCO)
AR-1715-0734

Imagery Analyst
AR-1606-0193

Imagery Analyst Basic Noncommissioned Officer (NCO)
AR-1606-0191

Intelligence Analyst
AR-1728-0083

Intelligence Analyst Basic Noncommissioned Officer (NCO)
AR-1606-0192

Non-Morse Interceptor/Analyst Basic Noncommissioned Officer (NCO)
AR-1717-0078

Noncommunications Interceptor/Analyst Basic Noncommissioned Officer (NCO)
AR-1715-0726

Programmer/Analyst
AR-1402-0114

Programmer/Analyst Basic Noncommissioned Officer (NCO)
AR-1402-0120

Signals Intelligence Analyst Basic Noncommissioned Officer (NCO)
AR-1715-0734

Software Analyst
AR-1402-0114

Animal

Advanced Animal Care Specialist
AR-0102-0005

Animal Care Specialist
AR-0102-0007

Antiarmor

Basic Noncommissioned Officer (NCO) 11H Heavy Antiarmor Weapons Infantryman
AR-2201-0433

Heavy Antiarmor Weapons Infantryman
AR-2201-0279

Heavy Antiarmor Weapons Infantryman Advanced Noncommissioned Officer (NCO)
AR-2201-0436

Heavy Antiarmor Weapons Infantryman Phase 1, Phase 2, Prior Service AR-2201-0279	Armament Repair Technician AR-1717-0077	Air Defense Artillery (ADA) Officer Advanced Reserve Component (RC) AR-1715-0655
OSUT-Heavy Weapons Antiarmor Infantry- man AR-2201-0446	Armament Repair Technician Senior Warrant Officer AR-1717-0100	Air Defense Artillery (ADA) Officer Basic AR-2201-0342
Antiterrorism	Armament Repair Technician Senior Warrant Officer Reserve Component Phase 2 AR-1717-0105	Air Defense Artillery (ADA) Operations and Intelligence Assistant AR-1601-0068
Antiterrorism Instructor Qualification AR-1406-0095	Armament Repair Technician Warrant Officer Advanced AR-1710-0123	Air Defense Artillery Basic Noncommis- sioned Officer (NCO) AR-2201-0422
Approach	Armament Repair Technician Warrant Officer Technical/Tactical Certification AR-1717-0096	Air Defense Artillery Officer Advanced Hawk Follow-On AR-1715-0803
Air Traffic Control Ground Control Approach Specialist AR-1704-0003	Armament Repair Technician Warrant Officer Technical/Tactical Certification, Phase 2 and 4 AR-1717-0103	Air Defense Artillery Officer Advanced Reserve AR-1715-0963
Architecture	Armament/Fire Control Maintenance Super- visor Noncommissioned Officer (NCO) Advanced AR-1704-0141	Air Defense Artillery Officer Advanced Sho- rad Follow-On AR-2201-0420
Expert Systems Architecture and Object-Ori- ented Programming AR-1402-0098	Armor	Air Defense Artillery Warrant Officer Advanced AR-1715-0964
Area	19D Armor Noncommissioned Officer (NCO) Advanced AR-1408-0144	Air Defense Artillery Warrant Officer Advanced Reserve, Phase 2 AR-2201-0418
Forward Area Alerting Radar (FAAR) Oper- ator AR-1715-0808	Armor Noncommissioned Officer (NCO) Advanced 19D AR-1408-0144	Artillery Repairer AR-2201-0308 AR-2201-0309
Forward Area Alerting Radar (FAAR) Repair AR-1715-0169	Armor Officer Advanced Reserve Compo- nent AR-2201-0321	Field Artillery (AN/TPS-58B) Radar Opera- tor AR-1715-0493
Forward Area Alerting Radar (FAAR) Repairer AR-1715-0169	Armor Officer Basic National Guard/Army Reserve AR-1710-0136	Field Artillery Air Defense Officer Reclassi- fication - Reserve AR-1715-0951
Forward Area Alerting Radar (FAAR) Repairer Basic Noncommissioned Officer (NCO) AR-1715-0642	Armor Officer Basic Reserve Component AR-1710-0136	Field Artillery Ballistic Missile Officer AR-1402-0026
Armament	Armor/Cavalry Maintenance Technician Warrant Officer Advanced AR-1703-0033	Field Artillery Cannon (FA-CMF) Noncom- missioned Officer (NCO) Advanced AR-2201-0213
AH-1 Aircraft Armament Maintenance Tech- nician AR-1715-0887	M1/M1A1 Abrams Armor Crewman AR-2201-0330	Field Artillery Cannon Basic Noncommis- sioned Officer (NCO) AR-2201-0362
AH-64 Aircraft Armament/Missile Systems Supervisor Basic Noncommissioned Officer (NCO) AR-1704-0192	M60A3 Armor Crewman AR-2201-0333	Field Artillery Cannon Battery Officer AR-2201-0219 AR-2201-0368
AH-64 Armament/Electrical System Repairer AR-1704-0191	Arms	Field Artillery Cannon Fire Direction Spe- cialist Basic Noncommissioned Officer (NCO) AR-2201-0257
AH-64 Armament/Electrical System Repairer (Transition) AR-1704-0206	Small Arms Maintenance for Unit Armorers AR-2201-0341	Field Artillery Cannon Fire Support Special- ist Basic Noncommissioned Officer (NCO) AR-2201-0256
AH-64 Armament/Electrical Systems Repairer Supervisor Basic Noncommis- sioned Officer (NCO) AR-1704-0192	Small Arms Repair AR-2201-0096	Field Artillery Cannon Weapon Systems Qualification AR-1715-0633
Aircraft Armament Maintenance Technician AR-1704-0062	Artificial	Field Artillery Computer Repairer AR-1715-0566
Aircraft Armament Missile Systems Repairer AR-1704-0159	Advanced Course in Artificial Intelligence Theory and Expert Systems Building AR-1402-0097	Field Artillery Digital Automatic Computer Radar Technician AR-1715-0566
Aircraft Armament Technical Inspector AR-1704-0146	Artillery	Field Artillery Digital System Repairer AR-1715-0631
Aircraft Armament/Missile Systems Repairer AR-1714-0031	Air Defense Artillery (ADA) Advanced Noncommissioned Officer (NCO) AR-1406-0035	Field Artillery Digital Systems Repairer AR-1715-0831
Aircraft Armament/Missile Systems Repairer Supervisor Advanced Noncommis- sioned Officer (NCO) AR-1704-0167	Air Defense Artillery (ADA) Command and Control Systems Technician Warrant Officer Technical Certification AR-1715-0807	Field Artillery Fire Support Specialist AR-1715-0846
Aircraft Armament/Missile Systems Super- visor Basic Noncommissioned Officer (NCO) AR-1704-0193	Air Defense Artillery (ADA) Crew Member AR-1715-0812	Field Artillery Firefinder Radar Operator AR-1715-0829
Aircraft Armament/Missile Systems Super- visor Basic Noncommissioned Officer (NCO) AR-1704-0147	Air Defense Artillery (ADA) Officer Advanced AR-1408-0019	Field Artillery Firefinder Unit Maintenance AR-1715-0838
	Air Defense Artillery (ADA) Officer Advanced Follow-On Training Hawk Track AR-1715-0803	Field Artillery Meteorological Crewmember AR-1304-0011
	Air Defense Artillery (ADA) Officer Advanced Follow-On Training Patriot Track AR-1715-0796	Field Artillery Meteorological Crewmember Basic Noncommissioned Officer (NCO) AR-1304-0010
	Air Defense Artillery (ADA) Officer Advanced Patriot Follow-On AR-1715-0796	

Field Artillery Meteorological Crewmember Noncommissioned Officer (NCO) Advanced	AR-1304-0008	Light Air Defense Artillery (LADA) Crewman	AR-2201-0301	Associate	Associate Logistics Executive Development	AR-0326-0003
Field Artillery Meteorological Crewmember Reserve	AR-1304-0012	Light Missile Field Artillery (LMFA)	AR-2201-0371	Associate Logistics Executive Development by Correspondence	AR-1405-0214	AR-1405-0213
Field Artillery Moving Target Locating Radar/Sensor Operator	AR-1715-0493	Marine Artillery Operations Chief	AR-1304-0009	Associate Logistics Executive Development Reserve Component	AR-1405-0213	AR-1405-0213
Field Artillery Officer Advanced	AR-1408-0028	Marine Artillery Scout Observer	AR-2201-0145	Associate Logistics Executive Development Reserve Component by Correspondence	AR-1405-0214	AR-1405-0214
Field Artillery Officer Advanced Preparatory	AR-1408-0213	Marine Corps Field Artillery Chief	AR-2201-0409	Atomic	Atomic Cannon Eight Inch	AR-2201-0260
Field Artillery Officer Advanced (Reserve Component)	AR-2201-0047	Marine Corps Field Artillery Fire Controlman	AR-1601-0055	Attack	AH-1 Attack Helicopter Repairer Basic Noncommissioned Officer (NCO)	AR-1704-0153
Field Artillery Officer Advanced, Reserve Component	AR-1408-0174	Marine Field Artillery Fire Controlman	AR-1601-0055	AH-1 Attack Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO)	AR-1704-0153	AR-1704-0153
Field Artillery Officer Basic	AR-2201-0193	OH-58 A/C Field Artillery Aerial Observer	AR-1606-0188	AH-1 Attack/HO-58A/C Observation/Scout Helicopter Repairer Supervisor Advanced Noncommissioned Officer (NCO)	AR-1704-0188	AR-1704-0188
Field Artillery Officer Basic (Reserve Component)	AR-2201-0411	OH-58D Field Artillery Aerial Fire Support Observer	AR-1402-0112	AH-64 Attack Helicopter Repairer	AR-1704-0156	AR-1704-0156
Field Artillery Officer Basic (Reserve Component)	AR-2201-0168	OH-58D Field Artillery Aerial Observer	AR-1606-0169	AH-64 Attack Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO)	AR-1717-0090	AR-1717-0090
Field Artillery Officer Candidate (Reserve Component)	AR-2201-0168	OH-58D Field Artillery Instructor Pilot Fire Support	AR-2201-0377	AH-64 Attack Helicopter Repairer Transition	AR-1704-0158	AR-1704-0158
Field Artillery Officer Orientation	AR-2201-0193	Professional Artillery Refresher	AR-2201-0378	Attack Helicopter Technical Inspector	AR-1704-0127	AR-1704-0127
Field Artillery Pre-Command	AR-2201-0259	Regular Army Field Artillery Officer Basic	AR-2201-0193	Joint Surveillance Target Attack Radar System (JStars) Ground Station Module (GSM) Operator/Supervisor	AR-1715-0870	AR-1715-0870
Field Artillery Radar Basic Noncommissioned Officer (NCO)	AR-1715-0635	Self-Propelled Artillery System Technician	AR-2201-0309	Audio	Visual Information/Audio Documentation Systems Specialist Basic Noncommissioned Officer (NCO)	AR-1719-0004
Field Artillery Radar Basic Technical	AR-1715-0635	Self-Propelled Field Artillery System Basic Noncommissioned Officer (NCO)	AR-1710-0112	Audit	Basic Internal Audit	AR-1401-0030
Field Artillery Radar Crew Member	AR-1715-0250	Self-Propelled Field Artillery System Mechanic Noncommissioned Officer (NCO)	AR-2201-0320	Intermediate Internal Audit	AR-1401-0031	AR-1401-0031
Field Artillery Radar Crewman	AR-1715-0250	Self-Propelled Field Artillery System Advanced	AR-2201-0320	Management Audit Level 1 Basic	AR-1401-0030	AR-1401-0030
Field Artillery Radar Crewmember Noncommissioned Officer (NCO) Advanced	AR-2201-0292	Self-Propelled Field Artillery Turret Mechanic	AR-1710-0157	Management Audit Level 2 Intermediate	AR-1401-0031	AR-1401-0031
Field Artillery Radar Operator	AR-1715-0250	Special Career Level Artillery Advanced Gunnery (USMC)	AR-2201-0378	Quality Audit of Subsistence	AR-0709-0042	AR-0709-0042
Field Artillery Surveyor	AR-1601-0079	System Mechanic Self-Propelled (SP) Artillery M109/M110 Series Vehicles	AR-1710-0066	Auditors	Logistics Management for Auditors	AR-1405-0114
Field Artillery Surveyor Advanced Noncommissioned Officer (NCO)	AR-2201-0293	Tactical Fire (TACFIRE) Divarty, Field Artillery Brigade, and Corps Artillery Fire Control Element	AR-1710-0067	Automated	Automated Communications Computer Systems Repairer	AR-1715-0874
Field Artillery Surveyor Basic Noncommissioned Officer (NCO)	AR-2201-0376	Towed Artillery Repairman (USMC)	AR-1402-0084	Automated Fire Support Leader	AR-2201-0380	AR-2201-0380
Field Artillery Surveyor Noncommissioned Officer (NCO) Advanced	AR-2201-0293	Asphalt	AR-2201-0309	Automated Information Systems Contracting	AR-1408-0120	AR-1408-0120
Field Artillery Tactical Fire (TACFIRE) Noncommissioned Officer (NCO) Advanced	AR-2201-0369	Concrete and Asphalt Equipment Operator	AR-1710-0091	Automated Inventory Management	AR-1405-0123	AR-1405-0123
Field Artillery Tactical Fire Direction System Repairer	AR-1402-0161	Assault	AR-1710-0174	Automated Logistical Specialist	AR-1405-0238	AR-1405-0238
Field Artillery Target Acquisition and Field Artillery Survey Officer	AR-1715-0936	Air Assault	AR-2201-0456	Automated Logistical Specialist Advanced Noncommissioned Officer (NCO)	AR-1405-0244	AR-1405-0244
Field Artillery Vehicle Maintenance Technician Warrant Officer Advanced	AR-1703-0032	Assembler	AR-1402-0043			
Field Artillery Weapons Maintenance	AR-1710-0156	Basic Assembler Language Coding (ALC)				
Hawk Missile Air Defense Artillery Officer Reclassification Reserve	AR-1715-0949	Assignment	AR-1408-0176			
Light Air Defense Artillery (ADA) Crew Member	AR-2201-0252	Collection Management/Tencaps Operations Assignment Specific Module				
		Assistance				
		Logistics Assistance Program Supply Support				

- Ballistic Meteorology Crewman, Specialist Candidate
AR 1715-0121
- Ballistic Missile Electrical Mechanical Repair (Pershing)
AR 1715-0122
- Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance Noncommissioned Officer (NCO) Advanced
AR 1715-0530
- Field Artillery Ballistic Missile Officer
AR-1402-0026
- Band**
- Army Band Advanced Noncommissioned Officer (NCO) Phase 2
AR-1205-0006
- Army Band Basic Noncommissioned Officer (NCO)
AR-1205-0012
- Army Band Officer
AR-1205-0011
- Reserve Component Army Band Advanced Noncommissioned Officer (NCO), Phase 2
AR-1205-0008
- Reserve Component Army Band Basic Noncommissioned Officer (NCO), Phase 2
AR-1205-0013
- Bandmaster**
- Bandmaster Senior Warrant Officer Training
AR-1205-0009
- Bandmaster Warrant Officer Advanced
AR-1205-0009
- Bandmaster Warrant Officer Basic
AR-1205-0010
- Bandmaster/Warrant Officer Technical and Tactical Certification
AR-1205-0010
- Basic**
- Basic Combat Training
AR-2201-0399
- Basic Noncommissioned Officer (NCO) 11B Infantryman
AR-2201-0439
- Basic Noncommissioned Officer (NCO) Indirect Fire Infantryman
AR-2201-0440
- Basic Training
AR-2201-0399
- Basic Training and Development
AR-1406-0039
- Infantry Officer Basic Reserve Component
AR-2201-0438
- Nuclear Weapons Specialist Basic Noncommissioned Officer (NCO)
AR-1715-0908
- Bath**
- Laundry and Bath Specialist, Reserve
AR-1716-0009
- Laundry and Bath/Fabric Repair Specialist Basic Noncommissioned Officer (NCO)
AR-1716-0010
- Laundry and Bath/Fabric Repair Specialists Advanced Noncommissioned Officer (NCO)
AR-1716-0012
- Battalion**
- Army Medical Department (AMEDD) Battalion/Brigade Pre-Command
AR-2201-0271
- Battalion S1
AR-1406-0104
- Battalion S1/Adjutant Staff Officer
AR-1406-0104
- Battalion Supply
AR-1406-0137
- Battalion Training Enlisted
AR 1406-0138
- Battalion Training Officer
AR 1406-0133
- Battalion/Brigade Pre-Command
AR-2201-0270
- Battalion/Brigade Signal Officer
AR-2201-0386
- Battery**
- Battery Computer System Cadre Reserve Component
AR-2201-0383
- Field Artillery Cannon Battery Officer
AR-2201-0219
- Marine Corps Battery Commander
AR-2201-0368
- Battle**
- Battle Staff Noncommissioned Officer (NCO)
AR-2201-0412
- Warrant Officer Technical/Tactical Certification, Phase 2 MOS 350B Order of Battle Technician
AR-2201-0384
- Battlefield**
- Battlefield Deception
AR-2201-0385
- Battlefield Spectrum Management
AR-1115-0013
- Behavioral**
- Behavioral Science Specialist
AR-1512-0016
- Beverage**
- Food and Beverage Management
AR-1729-0045
- Biological**
- Marine Corps Nuclear, Biological, Chemical (NBC) Defense
AR-1720-0001
- Medical Management of Chemical and Biological Casualties
AR-1408-0221
- Nuclear, Biological, Chemical (NBC) Defense
AR-1720-0007
- Nuclear, Biological, Chemical (NBC) Defense Officer Noncommissioned Officer (NCO)
AR-1720-0007
- Nuclear, Biological, Chemical (NBC) Reconnaissance
AR-0801-0026
- Biomedical**
- Biomedical Equipment Maintenance Orientation
AR-1715-0619
- Blood**
- Blood Donor Center Operations
AR-0702-0016
- Body**
- Vehicle Body Mechanic
AR-1703-0030
- Vehicle Body Repairman
AR-1703-0030
- Bradley**
- Abrams/Bradley Supervisor Diagnostics
AR-1710-0158
- Bradley Fighting Vehicle Commander
AR-2201-0454
- Bradley Fighting Vehicle Infantryman
AR-2201-0276
- AR-2201-0441
- Bradley Fighting Vehicle Infantryman Phase 1, Phase 2, Prior Service
AR-2201-0276
- Bradley Fighting Vehicle Leader
AR-2201-0453
- Bradley Fighting Vehicle System Mechanic Basic Noncommissioned Officer (NCO)
AR-1710-0110
- Bradley Fighting Vehicle System Mechanic Noncommissioned Officer (NCO)
AR-1710-0129
- Bradley Fighting Vehicle System Organizational Maintenance
AR-2201-0326
- Bradley Fighting Vehicle System Turret Mechanic
AR-1703-0045
- Bradley Fighting Vehicle Systems TOW/ Dragon Repairer
AR-1710-0108
- Bradley Infantry Fighting Vehicle Commander
AR-1710-0062
- Bradley Infantry Fighting Vehicle Gunner
AR-1710-0063
- M2/3 Bradley Fighting Vehicle (BFV) Unit Maintenance Training
AR-1710-0147
- M2/3 Bradley Fighting Vehicle (BFV) Unit Turret Maintenance
AR-1710-0143
- M2/3 Bradley Fighting Vehicle System Turret Mechanic
AR-1703-0045
- M2/M3 Bradley Fighting Vehicle Repairer
AR-1712-0016
- M2/M3 Bradley Fighting Vehicle Turret Repair
AR-1710-0105
- M3 Bradley/CFV Cavalry Scout
AR-2201-0331
- Branch**
- Branch Automation Officer
AR-1402-0113
- Combined Logistics Officer Advanced Quartermaster Branch Specific Track
AR-1405-0237
- Quartermaster Officer Branch Qualification
AR-2201-0406
- Signal Officer (Branch Qualification)
AR-1408-0210
- Transportation Officer (Branch Qualification)
AR-0419-0062
- Bread**
- Field Bread Baking Operations
AR-1729-0030
- BRH**
- BRH Compliance Testing
AR-0705-0008
- Bridge**
- Bridge Crewmember Basic Noncommissioned Officer (NCO)
AR-1601-0084
- Bridge Specialist
AR-1601-0089
- Brigade**
- Battalion/Brigade Pre-Command
AR-2201-0270
- Battalion/Brigade Signal Officer
AR-2201-0386

Budget

Budget AR-1401-0042
Resource Management Budget AR-1401-0038

Budgeting

Planning, Programming, Budgeting and Execution Systems AR-1408-0165

Burst

Special Forces Burst Communications System Maintenance AR-1715-0825

Business

Business Systems Analysis AR-1402-0048

C

C Programming Language AR-1402-0148

Cable

Cable Systems Installer/Maintainer AR-1714-0015

Cadet

Cadet Military Secondary Training/ROTC AR-2201-0303

Cadre

Battery Computer System Cadre Reserve Component AR-2201-0383
Initial Entry Training (IET) Cadre Course (Active Army) AR-2201-0255
Man Portable Air Defense System (MAN-PADS) FORSCOM Cadre Net AR-2201-0266

Calibration

Calibration and Repair Technician Warrant Officer Advanced AR-1715-0707
Calibration Specialist Basic Noncommissioned Officer (NCO) (35H30) AR-1715-0856

Candidate

National Guard Officer Candidate AR-2201-0300
Officer Candidate AR-2201-0167
AR-2201-0429
Warrant Officer Candidate AR-2201-0285

Cannon

Atomic Cannon Eight Inch AR-2201-0260
Cannon Crewman AR-2201-0372
Cannon Crewmember Advanced Noncommissioned Officer (NCO) AR-1601-0078
Cannon Crewmember Basic Noncommissioned Officer (NCO) AR-2201-0362
Cannon Fire Direction Specialist AR-1715-0844
Cannon Fire Direction Specialist Basic Noncommissioned Officer (NCO) AR-1402-0160
AR-2201-0257
Field Artillery Cannon (FA-CMF) Noncommissioned Officer (NCO) Advanced AR-2201-0213

Field Artillery Cannon Basic Noncommissioned Officer (NCO) AR-2201-0362

Field Artillery Cannon Battery Officer AR-2201-0219
AR-2201-0368

Field Artillery Cannon Fire Direction Specialist Basic Noncommissioned Officer (NCO) AR-2201-0257

Field Artillery Cannon Fire Support Specialist Basic Noncommissioned Officer (NCO) AR-2201-0256

Field Artillery Cannon Weapon Systems Qualification AR-1715-0633

Marine Corps Cannon Crewman AR-2201-0410

Nuclear Cannon Assembly AR-2201-0260
AR-2201-0379

Cardiac

Cardiac Specialist AR-0709-0023

Cardiovascular

Cardiovascular Specialist AR-0702-0012
Cardiovascular Technician AR-0702-0012

Care

Combat Casualty Care AR-0703-0026
Critical Care Nursing AR-0703-0016

Career

Special Career Level Artillery Advanced Gunnery (USMC) AR-2201-0378

Cargo

Cargo Specialist AR-0419-0046
Cargo Specialist Advanced Noncommissioned Officer (NCO) AR-0419-0051
Cargo Specialist Basic Noncommissioned Officer (NCO) AR-1710-0150
Utility/Cargo Airplane Repairer Basic Technical AR-1704-0115
Utility/Cargo and Observation Airplane Supervisor Advanced Noncommissioned Officer (NCO) AR-1704-0160

Carpentry

Carpentry/Masonry Specialist AR-1710-0173
Carpentry/Masonry Specialist Reserve Component AR-1601-0085

Casualty

Combat Casualty Care AR-0703-0026
Combat Casualty Management AR-0703-0026

Cavalry

Armor/Cavalry Maintenance Technician Warrant Officer Advanced AR-1703-0033
M113 Cavalry Scout AR-2201-0332

CCSS

Commodity Command Standard System (CCSS) Functional by Correspondence AR-1405-0231

Central

Central Accounting Officer AR-1401-0036
Dial Central Office Repairer AR-1715-0680
Hawk Information Coordination Central Mechanic (PIP 2) AR-1715-0815
Hawk Information Coordination Central Mechanic Transition AR-1715-0940
Switching Central Repairer AR-1715-0670
Telephone Central Office Repair Basic Noncommissioned Officer (NCO) AR-1406-0093
Telephone Central Office Repairer AR-1715-0670

Certification

Air Defense Artillery (ADA) Command and Control Systems Technician Warrant Officer Technical Certification AR-1715-0807
Airdrop Systems Technician Senior Warrant Officer Training (Technical/Tactical Certification) AR-1408-0156
Airdrop Systems Technician Warrant Officer Technical/Tactical Certification AR-1733-0010
All-Source Intelligence Technician Warrant Officer Technical/Tactical Certification, Phase 2 AR-2201-0384
Allied Trades Technician Warrant Officer Technical/Tactical Certification AR-1710-0115
Ammunition Technician Technical and Tactical Certification AR-0802-0021
Ammunition Technician Warrant Officer Technical and Tactical Certification Reserve (Phase 2 and 4) AR-2201-0394
Armament Repair Technician Warrant Officer Technical/Tactical Certification AR-1717-0096
Armament Repair Technician Warrant Officer Technical/Tactical Certification, Phase 2 and 4 AR-1717-0103
Aviation Maintenance Warrant Officer Technical/Tactical Certification AR-1704-0199
Bandmaster/Warrant Officer Technical and Tactical Certification AR-1205-0010
CID Certification AR-1728-0027
Communications Security (COMSEC) Technician Warrant Officer Technical and Tactical Certification AR-1402-0132
Communications-Electronics Technician Warrant Officer Technical Certification Reserve Component Phases 2 and 4 AR-1715-0858
Criminal Investigation Division (CID) Warrant Officer Technical and Tactical Certification AR-1728-0097

Criminal Investigation Division (CID) Warrant Officer Technical and Tactical Certification Reserve Phase 2

AR-1728-0098

Data Processing Technician Warrant Officer Technical and Tactical Certification

AR-1402-0157

Electronic Warfare (EW) Intercept Equipment Repair Technician Warrant Officer Technical Certification

AR-1408-0132

Emanations Analysis Technician Warrant Officer Technical/Tactical Certification

AR-1408-0136

Emanations Analysis Technician Warrant Officer Technical/Tactical Certification (WOTTC) - RC, Phases 2 and 3

AR-1408-0205

Emitter Location/Identification Technician Warrant Officer Technical Certification

AR-1408-0135

Engineer Equipment Repair Technician Warrant Officer Technical Tactical Certification Reserve

AR-1601-0093

Food Service Technician Warrant Officer Technical/Tactical Certification

AR-1729-0034

General Supply Technician Warrant Officer Technical Certification

AR-1405-0170

Hawk Missile System Technician Warrant Officer Technical/Tactical Certification (PIP 2)

AR-1715-0957

Imagery Intelligence Technician Warrant Officer Technical/Tactical Certification

AR-1606-0200

Intelligence/Electronic Warfare (EW) Equipment Technician Warrant Officer Technical/Tactical Certification Phase 2

AR-1408-0194

Intelligence/Electronic Warfare Equipment Technician Warrant Officer Technical/Tactical Certification (Reserve Component) Phases 2 and 3

AR-1408-0207

Interrogation Technical Warrant Officer Technical/Tactical Certification

AR-1606-0199

Lance Missile System Technician Warrant Officer Technical Certification

AR-1715-0843

Land Combat Missile Systems Technician Warrant Officer Technical and Tactical Certification

AR-1715-0899

Land Combat Missile Systems Technician Warrant Officer Technical and Tactical Certification Reserve (Phases 2 and 4)

AR-1715-0894

Marine Deck Officer A2 Certification (SQ12)

AR-1722-0005

Marine Deck Officer Warrant Officer Technical Certification

AR-1722-0006

Marine Engineering Officer A2 Certification

AR-1712-0021

Marine Engineering Officer Warrant Officer Technical Certification

AR-1712-0020

Marine Engineering Officer Warrant Officer Technical/Tactical Certification

AR-1712-0020

Meteorological Technician Warrant Officer Technical Certification

AR-1715-0629

MFAD Technician Warrant Officer Technical/Tactical Certification

AR-1715-0897

Military Intelligence Warrant Officer Technical/Tactical Certification (Common Core, Phase 1)

AR-1402-0128

Military Personnel Technician Warrant Officer Technical and Tactical Certification Reserve Component Phase 2

AR-1406-0152

Military Personnel Technician Warrant Officer Technical/Tactical Certification

AR-1406-0151

Morse Intercept Technician Warrant Officer Technical Certification

AR-1408-0133

Morse Intercept Technician Warrant Officer Technical/Tactical Certification Phase 2

AR-1408-0133

Non-Morse Intercept Technician Warrant Officer Technical Certification

AR-1408-0134

Nuclear Weapons Technician Warrant Officer Technical and Tactical Certification

AR-1715-0750

Nuclear Weapons Technician Warrant Officer Technical/Tactical Certification

AR-1715-0750

Patriot Missile System Technician Warrant Officer Technical Certification (WOTC) Phases 1 and 2

AR-1715-0797

Patriot System Technician Warrant Officer Technical/Tactical Certification

AR-1715-0797

Pershing Missile Systems Technician Warrant Officer Technical Certification

AR-1715-0842

Property Accounting Technician Quartermaster Warrant Officer Technical/Tactical Certification

AR-1405-0185

Property Accounting Technician Warrant Officer Technical/Tactical Certification Reserve

AR-1405-0186

Property Book Technician Quartermaster Warrant Officer Technical/Tactical Certification

AR-1405-0185

Property Book Technician Warrant Officer Technical/Tactical Certification Reserve

AR-1405-0186

Quickfix 2 Crew Certification

AR-1606-0205

Repair Parts Technician Quartermaster Warrant Officer Technical/Tactical Certification

AR-1405-0188

Repair Parts Technician Quartermaster Warrant Officer Technical/Tactical Certification Reserve Component

AR-1405-0190

Repair Shop Technician, Warrant Officer Technical/Tactical Certification, Phases 2 and 4

AR-1717-0102

Shorad Systems Technician Warrant Officer Technical/Tactical Certification

AR-1715-0962

Shorad Systems Technician Warrant Officer Technical/Tactical Certification, Phase 2

AR-1715-0948

Signal Systems Maintenance Technician Warrant Officer Technical and Tactical Certification

AR-1402-0131

Special Forces Technician Warrant Officer Technical/Tactical Certification

AR-1406-0096

Special Operations Technician Warrant Officer Technical Certification

AR-1406-0096

Supply Systems Technician Quartermaster Warrant Officer Technical/Tactical Certification

AR-1405-0188

Supply Systems Technician Quartermaster Warrant Officer Technical/Tactical Certification Reserve

AR-1405-0190

Tactical Automated Network Technician Warrant Officer Technical and Tactical Certification

AR-1402-0130

Tactics Certification

AR-2201-0443

Target Acquisition Radar Technician Warrant Officer Technical Certification

AR-1715-0840

Telecommunications Technician Warrant Officer Technical Certification Reserve Component Phases 2 and 4

AR-1715-0859

Test Measurement and Diagnostic Equipment (TMDE) Maintenance Support Technician Warrant Officer Technical and Tactical Certification

AR-1717-0108

Traffic Analysis Technician Warrant Officer Technical Certification

AR-1408-0137

Traffic Analysis Technician Warrant Officer Technical/Tactical Certification (Reserve Component) Phases 1 and 2

AR-1404-0043

Traffic Analysis Technician Warrant Officer Technical/Tactical Certification Phase 2

AR-1408-0137

Unit Maintenance Technician (Light) Warrant Officer Technical/Tactical Certification

AR-1710-0116

Unit Maintenance Technician (Light) Warrant Officer Technical/Tactical Certification Reserve Component Phases 2 and 4

AR-1717-0097

Voice Intercept Technician Warrant Officer Technical Certification

AR-1408-0138

Voice Intercept Technician Warrant Officer Technical/Tactical Certification (WOTTC) - RC Phases 2 and 3

AR-1408-0206

Voice Intercept Technician Warrant Officer Technical/Tactical Certification Phase 2

AR-1408-0138

Warrant Officer Technical Certification

AR-1717-0077

Warrant Officer Technical Certification (WOTC) Chaparral/Vulcan Systems Technician

AR-1715-0656

Warrant Officer Technical/Tactical Certification

AR-1710-0115

Warrant Officer Technical/Tactical Certification Phase 2 350D Imagery Intelligence Technician

AR-1710-0116

Warrant Officer Technical/Tactical Certification Phase 2 350D Imagery Intelligence Technician

AR-1717-0096

Warrant Officer Technical/Tactical Certification Phase 2 350D Imagery Intelligence Technician

AR-1606-0200

Warrant Officer Technical/Tactical Certification Phase 2 MOS 351B Counterintelligence Technician
AR-1606-0201

Warrant Officer Technical/Tactical Certification Phase 2 MOS 351E Interrogation Technician
AR-1606-0199

Warrant Officer Technical/Tactical Certification, Phase 2 350B All Source Intelligence Technician
AR-2201-0384

Warrant Officer Technical/Tactical Certification, Phase 2 MOS 350B Order of Battle Technician
AR-2201-0384

Watercraft Engineer Certification (88L20)
AR-1722-0007

CFV

ITV/IFV/CFV Systems Mechanic Recovery Specialist
AR-1703-0047

M3 Bradley/CFV Cavalry Scout
AR-2201-0331

CH-47

CH-47 (Chinook) Pilot Transition
AR-1606-0064

CH-47 Aviator Qualification
AR-1606-0064

CH-47 Helicopter Repairer
AR-1704-0154

CH-47 Helicopter Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0151

CH-47 Helicopter Repairer Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0165

CH-47 Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0151

CH-47 Medium Helicopter Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0151

CH-47 Medium/CH-54 Heavy Lift Helicopter Repairer Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0165

Medium Helicopter Repairer (CH-47)
AR-1704-0154

CH-47A/B/C

CH-47A/B/C Maintenance Manager/Test Pilot
AR-1717-0084

CH-47B/C

CH-47B/C Aviator Qualification
AR-1606-0064

CH-47D

CH-47D Aviator Qualification
AR-1606-0178

CH-47D Flight Engineer Instructor
AR-1606-0189

CH-47D Instructor Pilot
AR-1406-0120

CH-47D Maintenance Manager/Test Pilot
AR-1717-0084

CH-54

CH-47 Medium/CH-54 Heavy Lift Helicopter Repairer Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0165

CH-54 Heavy Lift Helicopter Repairer Reserve Component
AR-1704-0148

CH-54 Helicopter Repairer
AR-1704-0130

Channel

Single Channel Radio Operator
AR-1404-0009

Single Channel Radio Operator Basic Noncommissioned Officer (NCO)
AR-1404-0037

Chaparral

Chaparral Crewmember
AR-1715-0812

Chaparral Redeye Repairer
AR-1715-0529

Chaparral System Mechanic
AR-1715-0120
AR-1715-0956

Chaparral System Mechanic Basic Noncommissioned Officer (NCO)
AR-1715-0809

Chaparral/Redeye Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0641

Chaparral/Redeye Repairer Basic Technical (BT)
AR-1715-0641

Chaparral/Vulcan Noncommissioned Officer (NCO) Qualification
AR-2201-0063

Chaparral/Vulcan Officer and Noncommissioned Officer (NCO) Qualification
AR-2201-0063

Chaparral/Vulcan Officer Qualification
AR-2201-0063

Warrant Officer Technical Certification (WOTC) Chaparral/Vulcan Systems Technician
AR-1715-0656

Chapel

Chapel Activities Specialist
AR-1402-0087

Chapel Activities Specialist Basic Noncommissioned Officer (NCO)
AR-1408-0139

Chaplain

Chaplain Assistant
AR-1402-0087

Chaplain Assistant Advanced Noncommissioned Officer (NCO)
AR-1408-0127

Chaplain Assistant Basic Noncommissioned Officer (NCO)
AR-1408-0139

Chaplain Assistant Basic Noncommissioned Officer (NCO) Reserve Component
AR-1406-0130

Chaplain Candidate
AR-1406-0082

Chaplain Officer Advanced
AR-1408-0140

Chaplain Officer Advanced Reserve Component
AR-1408-0180

Chaplain Officer Basic
AR-1408-0141

Chaplain Reserve Component General Staff College
AR-1408-0128

Chaplain Training Manager
AR-1408-0129

Division Chaplain
AR-1406-0083

Installation Chaplain
AR-1406-0084

Chaplain's

Chaplain's Assistant
AR-1402-0087

Chaplains'

Nonappropriated Chaplains' Fund Clerk
AR-1408-0130

Nonappropriated Chaplains' Fund Custodian
AR-1408-0131

Chemical

Chemical (54-CMF) Noncommissioned Officer (NCO) Advanced
AR-2201-0029

Chemical (CL-CMF) Noncommissioned Officer (NCO) Advanced
AR-2201-0029

Chemical Operations Specialist
AR-0801-0033
AR-2201-0029

Chemical Operations Specialist (AITS Inserts)
AR-0801-0032

Chemical Operations Specialist (Basic Noncommissioned Officer (NCO))
AR-0801-0012

Chemical Operations Specialist Advanced Noncommissioned Officer (NCO)
AR-0801-0029

Chemical Operations Specialist Basic Noncommissioned Officer (NCO)
AR-0801-0028

Chemical Operations Specialist Basic Noncommissioned Officer (NCO) Reclassification
AR-0801-0010
AR-0801-0027

Chemical Operations Specialist, Phase 2
AR-0801-0031

Chemical Operations Specialist, Phase I
AR-0801-0030

Marine Corps Nuclear, Biological, Chemical (NBC) Defense
AR-1720-0001

Medical Management of Chemical and Biological Casualties
AR-1408-0221

Nuclear and Chemical Target Analysis
AR-0802-0025

Nuclear, Biological, Chemical (NBC) Defense
AR-1720-0007

Nuclear, Biological, Chemical (NBC) Defense Officer Noncommissioned Officer (NCO)
AR-1720-0007

Nuclear, Biological, Chemical (NBC) Reconnaissance
AR-0801-0026

Quartermaster Chemical Equipment Repairer
AR-1710-0159

Quartermaster/Chemical Equipment Repairer
AR-1710-0095

Quartermaster/Chemical Equipment Repairer Basic Technical
AR-1710-0095

Quartermaster/Chemical Equipment Repairer Transition
AR-1710-0160

Senior Utilities Quartermaster/Chemical Equipment Repairer Basic Noncommissioned Officer (NCO) Technical Portion
AR-1601-0080

- Senior Utilities, Quartermaster/Chemical Equipment Repairer Basic Noncommissioned Officer (NCO) Common Core
AR-1406-0142
- Chemistry**
Prime Power Production Specialist/Health Physics and Plant Chemistry Specialist
AR-1720-0002
- Chief**
Satellite/Microwave Systems Chief
Advanced Noncommissioned Officer (NCO)
AR-1715-0922
Tactical Communications Chief Basic Noncommissioned Officer (NCO)
AR-1715-0915
Tactical Communications Officer and Chief
AR-1715-0795
Telecommunications Operations Chief
Advanced Noncommissioned Officer (NCO)
AR-1402-0156
- Chinook**
CH-47 (Chinook) Pilot Transition
AR-1606-0064
- CID**
Apprentice Criminal Investigation Division (CID) Special Agent
AR-1728-0104
Apprentice Criminal Investigation Division (CID) Special Agent Reserve Component Phase 2 Resident
AR-1728-0105
Apprentice Criminal Investigation Division (CID) Special Agent Reserve Component Phase 4 Resident
AR-1728-0106
CID Certification
AR-1728-0027
CID Orientation
AR-1728-0027
Criminal Investigation Division (CID) Senior Warrant Officer
AR-1728-0092
Criminal Investigation Division (CID) Warrant Officer Technical and Tactical Certification
AR-1728-0097
Criminal Investigation Division (CID) Warrant Officer Technical and Tactical Certification Reserve Phase 2
AR-1728-0098
- Ciphony**
Fixed Ciphony Repairer
AR-1715-0687
Fixed Ciphony Repairer (Transition) (32G)
AR-1715-0687
- Circuit**
Closed Circuit Television
AR-1715-0622
Communications Systems/Circuit Controller
AR-1715-0849
Communications Systems/Circuit Controller (RC)
AR-1715-0879
Communications Systems/Circuit Controller Basic Basic Noncommissioned Officer (NCO)
AR-1715-0924
- Civil**
Civil Affairs
AR-1511-0016
Civil Affairs Enlisted
AR-1511-0012
- Civil Affairs Officer Advanced Nonresident/Resident Reserve Component
AR-1511-0014
Civil Affairs Officer Advanced Nonresident/Resident, Reserve Component Phase 2
AR-1511-0014
Civil Affairs Specialist Reserve
AR-1511-0026
Civil Military Operations
AR-2201-0343
- Civilian**
Civilian Pay Management
AR-1401-0045
Civilian Payroll Technician
AR-1401-0044
- Clerk**
Legal Clerk
AR-1403-0002
Travel Clerk
AR-0418-0001
Unit Clerk
AR-1403-0016
- Clinical**
Army Medical Department (AMEDD) Clinical Head Nurse
AR-0703-0021
Army Medical Department (AMEDD) Table of Distribution (TDA) Deputy Commander for Clinical Services
AR-0799-0025
Army Medical Department Officer Clinical Head Nurse
AR-0703-0021
Clinical Laboratory Officer
AR-0703-0027
Clinical Specialist
AR-0709-0009
- Closed**
Closed Circuit Television
AR-1715-0622
- COBOL**
Advanced COBOL Workshop
AR-1402-0046
Basic ANS COBOL
AR-1402-0150
COBOL Programming
AR-1402-0107
DAS3 COBOL Specifics
AR-1402-0069
Introduction to ANS COBOL
AR-1402-0047
Introduction to COBOL
AR-1402-0150
Structured Coding Using COBOL
AR-1402-0067
- Coding**
Structured Coding Using COBOL
AR-1402-0067
Structured Coding Workshop
AR-1402-0067
- Collection**
Collection Management Operations
AR-1408-0208
Collection Management/Tencaps Operations Assignment Specific Module
AR-1408-0176
Space Collection (SPACOL) Operations
AR-2201-0203
Space Collection Operations
AR-2201-0203
Telemetry Collection Operations
AR-1715-0729
AR-2201-0203
- Wideband Collection System Maintenance
AR-1715-0891
- College**
Army War College
AR-1511-0021
Army War College Corresponding (by Correspondence)
AR-1511-0022
- Combat**
Ballistic/Land Combat Missile and Light Air Defense Weapons Systems Maintenance Noncommissioned Officer (NCO) Advanced
AR-1715-0530
Basic Combat Training
AR-2201-0399
Combat Casualty Care
AR-0703-0026
Combat Casualty Management
AR-0703-0026
Combat Engineer
AR-1601-0070
AR-1601-0086
Combat Engineer Basic Noncommissioned Officer (NCO)
AR-1601-0081
Combat Engineering Advanced Noncommissioned Officer
AR-1601-0082
Combat Intelligence
AR-1606-0175
Combat Services Support Pre-Command
AR-1405-0140
Combat Signaler
AR-1715-0434
Land Combat Advanced Noncommissioned Officer (NCO)
AR-1715-0902
Land Combat Missile Systems Repair Technician Senior Warrant Officer
AR-1715-0900
Land Combat Missile Systems Technician Warrant Officer Technical and Tactical Certification
AR-1715-0899
Land Combat Missile Systems Technician Warrant Officer Technical and Tactical Certification Reserve (Phases 2 and 4)
AR-1715-0894
Land Combat Support System Test Specialist
AR-1715-0652
AR-1715-0748
Land Combat Support System Test Specialist Basic Noncommissioned Officer (NCO)
AR-1715-0652
Maneuver Combat Arms Infantry Noncommissioned Officer (NCO) Advanced
AR-2201-0181
Pre-Command Phase III Combat Service Support Missile and Munitions
AR-1408-0123
Primary Noncommissioned Officer (NCO) for Combat Arms
AR-2201-0274
Reserve Component Multifunctional Combat Service Support
AR-2201-0413
Special Forces Combat Diver Qualification
AR-0803-0006
Special Forces Combat Diving Supervisor
AR-1606-0177
Tactical Army Combat Service Support Computer System (TACCS) Programming
AR-1402-0109

Tactical Army Combat Service Support
Computer System/Standard Army Maintenance System (TACCS/SAMS)
AR-1402-0101
UH-1 Combat Skills Day/Night/Night Vision
Goggles Methods of Instruction
AR-1406-0080

Command

Adjutant General Officer Advanced (Company Command Module) Reserve Component Phase I
AR-1408-0201
Air Defense Artillery (ADA) Command and Control Systems Technician Warrant Officer Technical Certification
AR-1715-0807
AN/TSQ-73 Air Defense Artillery (ADA) Command and Control System Operator/Maintainer
AR-1715-0820
AN/TSQ-73 Air Defense Artillery (ADA) Command and Control System Operator/Repairer
AR-1715-0820
AN/TSQ-73 Air Defense Artillery (ADA) Command and Control System Operator/Repairer
AR-1715-0820
Command Sergeants Major
AR-1408-0159
Commodity Command Standard System (CCSS) Functional
AR-1405-0118
Commodity Command Standard System (CCSS) Functional by Correspondence
AR-1405-0231
Commodity Command Standard System Functional
AR-1405-0244
Commodity Command Standard System Functional by Correspondence
AR-1405-0231
Commodity Command Standard System Physical Inventory Management
AR-1405-0218
Commodity Command Standard System Physical Inventory Management by Correspondence
AR-1405-0230
Electronic Warfare (EW)/Intercept Strategic Systems Analyst and Command and Control Subsystems Repairer
AR-1715-0720
Electronic Warfare (EW)/Intercept Strategic Systems Analyst and Command and Control Subsystems Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0721

Commander

Army Medical Department (AMEDD) Table of Distribution (TDA) Deputy Commander for Clinical Services
AR-0799-0025
Company Commander
AR-1408-0160
Company Commander and First Sergeant
AR-1408-0160
Marine Corps Battery Commander
AR-2201-0374
National Guard (ARNG) Recruiting and Retention Detachment Commander
AR-1408-0183
Recruiting Commander
AR-1406-0162
Station Commander
AR-1406-0163

Commercial

Commercial Accounts Administration
AR-1401-0048
Commercial Activities Process
AR-1408-0121
Commercial Activities Review Process
AR-1408-0121

Commissary

Commissary Management
AR-1729-0029

Commodity

Commodity Command Standard System (CCSS) Functional
AR-1405-0118
Commodity Command Standard System (CCSS) Functional by Correspondence
AR-1405-0231
Commodity Command Standard System Functional
AR-1405-0244
Commodity Command Standard System Functional by Correspondence
AR-1405-0231
Commodity Command Standard System Physical Inventory Management
AR-1405-0218
Commodity Command Standard System Physical Inventory Management by Correspondence
AR-1405-0230

Common

Advanced Noncommissioned Officer (NCO) Common Core
AR-1404-0035
Advanced Noncommissioned Officer (NCO) Common Leader (Common Core)
AR-1404-0035
Advanced Noncommissioned Officer (NCO) Common Leader, Reserve, Phase I
AR-2201-0295
Air Defense Artillery Officer Basic Common
AR-2201-0424
Basic Noncommissioned Officer (NCO) Common Core
AR-1406-0090
Basic Noncommissioned Officer (NCO) Common Leader Reserve Training
AR-2201-0337
Basic Noncommissioned Officer (NCO) Common Leader Training
AR-1406-0090
Military Intelligence Common Core Phase I
AR-1402-0128
Military Intelligence Officer Advanced Common Core
AR-1606-0196
Military Intelligence Warrant Officer Technical/Tactical Certification Common Core, Phase I
AR-1402-0128
Special Electronic Mission Aircraft (SEMA) Common Core
AR-1715-0871

Communication

Avionic Communication Equipment Repairer
AR-1715-0868
Medium Capacity Multichannel Communication Systems
AR-1715-0549
Medium Capacity Multichannel Communication Systems Team Chief
AR-1715-0549

Communications

Avionic Communications Equipment Repairer
AR-1715-0868
Avionic Communications Equipment Repairer Basic Noncommissioned Officer (NCO) Reserve
AR-1715-0967
Basic Communications-Electronics Installation
AR-1714-0034
Communications and Electronics Staff Officer
AR-1715-0226
Communications Computer System Repairer Basic Noncommissioned Officer (NCO)
AR-1402-0159
Communications Electronic Warfare Equipment Operations
AR-1715-0822
Communications Security (COMSEC) Equipment TSEC/KI-1A Repair
AR-1715-0690
Communications Security (COMSEC) Technician Warrant Officer Technical and Tactical Certification
AR-1402-0132
Communications Security (COMSEC) TSEC/ST-58 Repair
AR-1715-0763
Communications System Control Element Operations
AR-1715-0933
Communications Systems/Circuit Controller
AR-1715-0849
Communications Systems/Circuit Controller (RC)
AR-1715-0879
Communications Systems/Circuit Controller Basic Basic Noncommissioned Officer (NCO)
AR-1715-0924
Communications-Electronics Basic Installer
AR-1714-0034
Communications-Electronics Maintenance Advanced Noncommissioned Officer (NCO)
AR-1715-0851
Communications-Electronics Maintenance Chief Advanced Noncommissioned Officer (NCO)
AR-1402-0155
Communications-Electronics Repair Technician Senior Warrant Officer
AR-1715-0860
Communications-Electronics Technician Warrant Officer Technical Certification Reserve Component Phases 2 and 4
AR-1715-0858
Corps/Division Communications Operations Officer
AR-1715-0700
Defense Satellite Communications System (DSCS) Ground Mobile Forces (GMF) Controller
AR-1715-0691
Digital Communications Subsystems
AR-1715-0667
Digital European Backbone (DEB) Communications System Repair
AR-1715-0666
Field Communications Security (COMSEC) Equipment Full Maintenance
AR-1715-0677
Field Communications Security (COMSEC) Equipment Repair
AR-1715-0661

- Fixed Communications Security (COMSEC) Equipment Full Maintenance AR-1715-0764
- Fixed Communications Security (COMSEC) Equipment Repair AR-1715-0669
- Interpersonal Communications AR-1512-0010
- Joint Tactical Communications (TRI-TAC) Operations AR-1715-0605
- Joint Tactical Communications System Management AR-1402-0158
- Multichannel Communications Equipment Operator AR-1715-0053
- Multichannel Communications Equipment Operator Basic Noncommissioned Officer (NCO) AR-1715-0606
- Multichannel Communications Systems AR-1715-0793
- Multichannel Communications Systems Operator AR-1715-0053
- Multichannel Communications Systems Operator Basic Noncommissioned Officer (NCO) AR-1715-0606
- Organizational Communications-Electronics (C-E) Operator/Mechanics AR-1715-0791
- Patriot Communications Crewmember AR-1715-0654
- Satellite Communications (SATCOM) AN/USC-28(V) Set AR-1715-0853
- Satellite Communications (SATCOM) Controller AR-1715-0694
- Satellite Communications (SATCOM) Equipment Repairer AR-1715-0781
- Satellite Communications (SATCOM) Operator, Navy AR-1715-0438
- Satellite Communications (SATCOM) Systems Operator/Maintainer AR-1715-0781
- Satellite Communications (SATCOM) Systems Repairer AR-1715-0781
- Satellite Communications (SATCOM) Systems Repairer Basic Noncommissioned Officer (NCO) AR-1715-0918
- Satellite Communications (SATCOM) Terminal AN/FSC-78/79 and AN/GSC-39 AR-1715-0702
- Satellite Communications (SATCOM) Terminal AN/GSC-49 AR-1715-0701
- Satellite Communications (SATCOM) Terminal AN/GSC-52(V) AR-1715-0774
- Satellite Communications (SATCOM) Terminal AN/MS-C-64 General Support Maintenance AR-1715-0607
- Satellite Communications (SATCOM) Terminal AN/TSC-54 Repair AR-1715-0047
- Satellite Communications (SATCOM) Terminal Operator/Maintainer AR-1715-0607
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- Army Community Service AR-1513-0007
- Army Community Service Management AR-1513-0008
- Director of Personnel and Community Activities (DPCA) AR-1513-0010
- Company**
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- Component**
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- Battery Computer System Cadre Reserve Component AR-2201-0383
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	AR-1710-0174	Management of Defense Acquisition Con- tracts Basic	AR-0326-0053	Air Traffic Control Radar Controller	AR-1704-0003
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Continuous				Basic Corrections	AR-1728-0007
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AR-1405-0231
- Commodity Command Standard System Functional by Correspondence
AR-1405-0231
- Commodity Command Standard System Physical Inventory Management by Correspondence
AR-1405-0230
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AR-0326-0054
- Cost Estimating for Engineers by Correspondence
AR-0301-0004
- Defense Distribution Management by Correspondence
AR-0326-0052
- Defense Reutilization and Marketing Operations Basic by Correspondence
AR-1405-0217
- Defense Small Purchase Basic by Correspondence
AR-1408-0199
- Defense Strategy by Correspondence
AR-1511-0023
- Depot Supply Operations Management by Correspondence
AR-0326-0052
- Introduction to Operations Research Systems Analysis by Correspondence
AR-1115-0014
- Logistics Executive Development by Correspondence
AR-1405-0212
- Logistics Management Development by Correspondence
AR-0326-0048
- Management of Defense Acquisition Contracts Basic by Correspondence
AR-0326-0054
- Operations Research and Systems Analysis (ORSA) Familiarization by Correspondence
AR-1115-0014
- Cost**
- Cost Accounting Standards Workshop
AR-1401-0021
- Cost Analysis for Decision Making
AR-1408-0056
- Cost Estimating for Engineers
AR-0301-0003
- Cost Estimating for Engineers by Correspondence
AR-0301-0004
- Department of Defense (DOD) Cost Accounting Standards Workshop
AR-1401-0021
- Counseling**
- Alcohol and Drug Abuse Prevention and Control (ADAPCP) Family Counseling
AR-1512-0024
- Alcohol and Drug Abuse Prevention and Control Program Advanced Counseling Skills
AR-1512-0012
- Alcohol and Drug Abuse Prevention and Control Program Family Counseling
AR-1512-0013
- Alcohol and Drug Abuse Prevention and Control Program Group Counseling Skills
AR-1512-0014
- Alcohol and Drug Prevention and Control Program Individual Counseling Skills
AR-1512-0015
- Principles of Counseling
AR-1406-0052
- Counselor**
- Guidance Counselor
AR-1406-0160
AR-1408-0184
- Military Enlistment Processing Station (MEPS) Guidance Counselor National Guard (ARNG)
AR-2201-0352
- Counter-Signals**
- Counter-Signals Intelligence Specialist
AR-1402-0127
- Counter-Signals Intelligence Specialist Basic Noncommissioned Officer (NCO)
AR-1402-0126
- Counteraction**
- Intelligence in Terrorism Counteraction
AR-1511-0024
- Counterintelligence**
- Counterintelligence Agent
AR-1728-0082
AR-1728-0086
- Counterintelligence Agent Basic Noncommissioned Officer (NCO)
AR-1728-0081
- Counterintelligence Agent Transition
AR-1728-0080
- Counterintelligence Assistant
AR-1728-0086
- Military Intelligence Officer Advanced Counterintelligence
AR-1728-0085
- Multidiscipline Counterintelligence Specialist
AR-1402-0127
- Warrant Officer Technical/Tactical Certification Phase 2 MOS 351B Counterintelligence Technician
AR-1606-0201
- Countermeasures**
- Special Purpose Countermeasures System AN/ALQ-151(V)2 Operator
AR-1715-0892
- Technical Surveillance Countermeasures, Phase 1
AR-1715-0711
- Court**
- Court Reporter Noncommissioned Officer (NCO) Advanced
AR-1407-0006
- Legal Specialist/ Court Reporter Basic Noncommissioned Officer (NCO)
AR-1407-0009
- Legal Specialist/Court Reporter Advanced Noncommissioned Officer (NCO)
AR-1728-0088
- Crane**
- Crane Operator
AR-1710-0168
- Crew**
- Air Defense Artillery (ADA) Crew Member
AR-1715-0812
- Hawk Fire Control Crew Member
AR-1715-0818
- Light Air Defense Artillery (ADA) Crew Member
AR-2201-0252
- Man Portable Air Defense (MANPAD) Crew Member
AR-1715-0817
- Man Portable Air Defense (MANPAD) Crew Member (Redeye) Reserve Component
AR-1715-0801
- Vulcan Crew Member
AR-1715-0819
- Crewman**
- Crewman
AR-1722-0002
- M1/M1A1 Abrams Armor Crewman
AR-2201-0330
- M60A3 Armor Crewman
AR-2201-0333
- Crewmember**
- Avenger Crewmember (Transition)
AR-1715-0938
- Avenger System Crewmember
AR-1715-0937
- Avenger System Crewmember (Transition)
AR-1715-0938
- Chaparral Crewmember
AR-1715-0812
- Hawk Missile System Crewmember
AR-1715-0939
- Hawk Missile System Crewmember (Transition)
AR-1715-0954
- Line of Sight-Forward-Heavy Crewmember
AR-1715-0942
- Man Portable Air Defense (MANPAD) Crewmember (Stinger) Reserve Component
AR-1715-0800
- Crime**
- Conventional Physical Security/Crime Prevention
AR-1728-0094
- Conventional Security/Crime Prevention
AR-1728-0065
- Criminal**
- Apprentice Criminal Investigation Division (CID) Special Agent
AR-1728-0104
- Apprentice Criminal Investigation Division (CID) Special Agent Reserve Component Phase 2 Resident
AR-1728-0105
- Apprentice Criminal Investigation Division (CID) Special Agent Reserve Component Phase 4 Resident
AR-1728-0106
- Criminal Investigation
AR-1728-0010
- Criminal Investigation Division (CID) Senior Warrant Officer
AR-1728-0092
- Criminal Investigation Division (CID) Warrant Officer Technical and Tactical Certification
AR-1728-0097
- Criminal Investigation Division (CID) Warrant Officer Technical and Tactical Certification Reserve Phase 2
AR-1728-0098
- Criminal Investigation Supervision
AR-1728-0027
- Critical**
- Critical Care Nursing
AR-0703-0016
- Cryptographic**
- Electronic Warfare (EW)/ Cryptographic Advanced Noncommissioned Officer (NCO)
AR-1406-0126
- Fixed Cryptographic Equipment Repair Transition 32F
AR-1715-0681

- Dental Laboratory Specialist (Basic)
AR 0701-0014
- Dental Laboratory Specialist (Senior)
AR 0701-0015
- Dental Specialist
AR 0701-0013
- Dental Specialist Reserve Component (Non-resident/Resident) Phase 2
AR 0701-0012
- Dentistry**
Preventive Dentistry Specialty
AR 0701-0016
- Deployment**
Strategic Deployment Planning
AR 0419-0056
- Depot**
Army Depot Operations Management
AR 0326-0008
- Depot Supply Operations Management
AR 0326-0051
- Depot Supply Operations Management by Correspondence
AR 0326-0052
- Standard Depot System Depot Maintenance Workloading
AR 1405-0220
- Standard Depot System Depot Physical Inventory Management
AR 1405-0219
- Design**
Design (ISD Phase 2); Develop (ISD Phase 3); Control/Evaluation (ISD Phase 5); Validation Procedures for Course Materials and Tests
AR 1406-0058
- Structured Systems Analysis and Design
AR 1402-0108
- Detachment**
Special Forces Detachment Officer
AR 2201-0346
- Special Forces Detachment Officer Qualification Reserve Component Phase 4
AR 2201-0347
- Develop**
Design (ISD Phase 2); Develop (ISD Phase 3); Control/Evaluation (ISD Phase 5); Validation Procedures for Course Materials and Tests
AR 1406-0058
- Development**
Army Medical Department Staff Development (Reserve Component) (Nonresident/Resident)
AR 0799-0017
- Associate Logistics Executive Development by Correspondence
AR 1405-0214
- Associate Logistics Executive Development Reserve Component
AR 1405-0213
- Associate Logistics Executive Development Reserve Component by Correspondence
AR 1405-0214
- Basic Training and Development
AR 1406-0039
- Faculty Development
AR 1406-0092
AR 1406-0167
- Foreign Internal Defense/Internal Defense and Development
AR 1511-0025
- Instructional Systems Development
AR 1406-0036
- Leadership Development
AR 2201-0387
- Logistics Executive Development
AR 1405-0211
- Logistics Executive Development by Correspondence
AR 1405-0212
- Logistics Management Development
AR 0326-0047
- Logistics Management Development by Correspondence
AR 0326-0048
- Operations Research Systems Analysis (ORSA) Military Skills Development
AR 1402-0138
- Organization Development Facilitators
AR 1405-0206
- Organizational Development Consultants
AR 0326-0046
- Primary Leadership Development
AR 2201-0253
- Primary Leadership Development Reserve Component
AR 2201-0294
- Staff and Faculty Development
AR 1406-0092
- Staff and Parish Development Consultant
AR 1406-0085
- Techniques and Procedures for Field Manual Development
AR 1406-0055
- Warrant Officer Candidate Military Development
AR 2201-0212
- Warrant Officer Professional Development
AR 1406-0112
- Device**
Telecommunications Terminal Device Repairer
AR 1715-0848
- Devices**
Special Electronic Devices Repair
AR 1715-0779
- Supervisor Special Electronic Devices Repairer Basic Noncommissioned Officer (NCO)
AR 1715-0854
- Diagnostic**
Test Measurement and Diagnostic Equipment (TDME) Maintenance Support Technician Senior Warrant Officer
AR 1717-0109
- Test Measurement and Diagnostic Equipment (TMDE) Maintenance Support Technician Warrant Officer Technical and Tactical Certification
AR 1717-0108
- Test, Measurement, and Diagnostic Equipment (TMDE) Advanced Noncommissioned Officer (NCO)
AR 1406-0108
- Dial**
Dial Central Office Repairer
AR 1715-0680
- Dialysis**
Dialysis Technician
AR 0702-0005
- Renal Dialysis Nurse Education
AR 0703-0017
- Renal Dialysis Nurse Education, Phase 2 and 3
AR 0703-0017
- Renal Dialysis Technician
AR 0702-0005
- Digital**
Advanced Digital Theory
AR 1715-0621
- Digital Communications Subsystems
AR 1715-0667
- Digital European Backbone (DEB) Communications System Repair
AR 1715-0666
- Digital Radio and Multiplexer Acquisition (DRAMA) Communications Systems Repair
AR 1715-0665
- Digital Radio Multiplexer Acquisition (DRAMA)
AR 1715-0665
- Digital Subscriber Terminal Equipment (DSTE) Repairer
AR 1715-0253
- Field Artillery Digital Automatic Computer Radar Technician
AR 1715-0566
- Field Artillery Digital System Repairer
AR 1715-0631
- Field Artillery Digital Systems Repairer
AR 1715-0831
- Dining**
Dining Facility Management
AR 1729-0042
- Direction**
Cannon Fire Direction Specialist
AR 1715-0844
- Cannon Fire Direction Specialist Basic Noncommissioned Officer (NCO)
AR 1402-0160
AR 2201-0257
- Field Artillery Cannon Fire Direction Specialist Basic Noncommissioned Officer (NCO)
AR 2201-0257
- Field Artillery Tactical Fire Direction System Repairer
AR 1402-0161
AR 1715-0936
- Fire Direction Officer
AR 1402-0122
- Lance Operations/Fire Direction Assistant
AR 1601-0056
- Multiple Launch Rocket System (MLRS)/Lance Fire Direction Supervisor Advanced Noncommissioned Officer (NCO)
AR 2201-0359
- Multiple Launch Rocket System (MLRS)/Lance Operations Fire Direction Specialist Basic Noncommissioned Officer (NCO)
AR 2201-0365
- TACFIRE Fire Direction System Fire Support with Fire Support Element Module
AR 1402-0074
- Tactical FIRE (TACFIRE) Battalion Fire Direction Officer
AR 1402-0083
- Tactical Fire (TACFIRE) Direction System Fire Support
AR 1402-0074
- Director**
Director of Personnel and Community Activities (DPCA)
AR 1513-0010
- Directorate**
Directorate of Industrial Operations
AR 1408-0075
- Directorate of Logistics
AR 1408-0075

- Fuel and Electrical Systems Repairer
AR-1703-0026
AR-1703-0061
- M1 Abrams Fuel and Electrical Systems Repairer
AR-1714-0029
- OH-58D Aircraft Electrical Repairer
AR-1714-0033
- Pershing Electrical-Mechanical Repairer
AR-1715-0122
- Pershing Electrical-Mechanical Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0649
- Prime Power Production Specialist (Electrical Specialty)
AR-1720-0003
- Prime Power Production Specialist, Electrical Specialty
AR-1720-0009
- Electrician**
- Aircraft Electrician
AR-1704-0075
- Aircraft Electrician Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0108
- Aircraft Electrician Repairer Basic Technical
AR-1704-0108
- Aircraft Electrician Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0108
AR-1704-0182
- Interior Electrician
AR-1714-0035
- Electro-Optical**
- Electro-Optical Ordnance Repairer USMC
AR-1714-0030
- Electronic**
- Aerial Electronic Warning/Defense Equipment Repairer
AR-1715-0500
- Electronic Processing and Dissemination System Operator/Analyst
AR-1402-0141
AR-1715-0790
- Electronic Switching System Operator
AR-1715-0886
- Electronic Switching Systems Operator/Maintainer
AR-1404-0044
- Electronic Switching Systems Technical Manager
AR-1715-0598
- Hercules Electronic Mechanic
AR-1715-0084
- Nike Hercules Electronic Maintenance
AR-1715-0084
- OH-58D Special Electronic
AR-1715-0783
- Pershing Electronic Material Specialist Basic Noncommissioned Officer (NCO)
AR-1715-0624
- Special Electronic Devices Repairer
AR-1715-0779
- Special Electronic Mission Aircraft (SEMA) Common Core
AR-1715-0871
- Supervisor Special Electronic Devices Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0854
- Electronic Warfare**
- Communications Electronic Warfare Equipment Operations
AR-1715-0822
- Electronic Warfare (EW) Analyst
AR-2201-0313
- Electronic Warfare (EW) Operations Phase 1
AR-1715-0822
- Electronic Warfare (EW) Signal Intelligence (SIGINT) Noncommunications Interceptor
AR-1715-0710
- Electronic Warfare (EW) Signals Intelligence (SIGINT) Non-Morse Interceptor Basic Noncommissioned Officer (NCO)
AR-1717-0078
- Electronic Warfare (EW) Signals Intelligence (SIGINT) Voice Interceptor Basic Noncommissioned Officer (NCO)
AR-1715-0728
- Electronic Warfare (EW)/Cryptographic Advanced Noncommissioned Officer (NCO)
AR-1406-0126
- Electronic Warfare (EW)/Cryptologic Advanced Noncommissioned Officer (NCO)
AR-2201-0037
- Electronic Warfare (EW)/Intercept Aerial Sensor Repairer
AR-1715-0713
- Electronic Warfare (EW)/Intercept Aerial Sensor Repairer Basic Noncommissioned Officer (NCO) Phase 2
AR-1715-0890
- Electronic Warfare (EW)/Intercept Aerial Sensor Repairer Phase 2
AR-1715-0869
- Electronic Warfare (EW)/Intercept Aviation Equipment Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0714
- Electronic Warfare (EW)/Intercept Aviation Systems Repairer
AR-1715-0715
- Electronic Warfare (EW)/Intercept Equipment Repair Technician Warrant Officer Technical Certification
AR-1408-0132
- Electronic Warfare (EW)/Intercept Strategic Receiving Subsystem Repairer
AR-1715-0827
- Electronic Warfare (EW)/Intercept Strategic Receiving Subsystem Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0717
- Electronic Warfare (EW)/Intercept Strategic Signal Processing and Storage Subsystem Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0719
- Electronic Warfare (EW)/Intercept Strategic Signal Processing/Storage Subsystem Repairer
AR-1715-0718
- Electronic Warfare (EW)/Intercept Strategic Systems Analyst and Command and Control Subsystems Repairer
AR-1715-0720
- Electronic Warfare (EW)/Intercept Strategic Systems Analyst and Command and Control Subsystems Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0721
- Electronic Warfare (EW)/Intercept System Maintenance Analyst Advanced Noncommissioned Officer (NCO)
AR-1406-0127
- Electronic Warfare (EW)/Intercept Tactical Systems Repairer
AR-1715-0722
- Electronic Warfare (EW)/Intercept Tactical Systems Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0723
- Electronic Warfare (EW)/Signal Intelligence (SIGINT) Emitter Identifier/Locator
AR-1409-0011
- Electronic Warfare (EW)/Signal Intelligence (SIGINT) Morse Interceptor
AR-1409-0012
- Electronic Warfare (EW)/Signal Intelligence (SIGINT) Noncommunications Interceptor Analyst Basic Noncommissioned Officer (NCO)
AR-1715-0726
- Electronic Warfare (EW)/Signals Intelligence (SIGINT) Analyst Basic Noncommissioned Officer (NCO)
AR-1715-0734
- Electronic Warfare (EW)/Signals Intelligence (SIGINT) Emitter Locator/Identifier Basic Noncommissioned Officer (NCO)
AR-2201-0316
- Electronic Warfare (EW)/Signals Intelligence (SIGINT) Morse Interceptor Basic Noncommissioned Officer (NCO)
AR-1717-0079
- Electronic Warfare/Intercept Aviation Systems Basic Noncommissioned Officer (NCO)
AR-1715-0714
- Intelligence/Electronic Warfare (EW) Equipment Technician Warrant Officer Technical/Tactical Certification Phase 2
AR-1408-0194
- Intelligence/Electronic Warfare Equipment Technician Warrant Officer Technical/Tactical Certification (Reserve Component) Phases 2 and 3
AR-1408-0207
- Military Intelligence Officer Advanced (Signals Intelligence/Electronic Warfare (SIGINT/EW))
AR-1406-0128
- Signal Intelligence/Electronic Warfare (SIGINT/EW) Officer (AST-35G)
AR-1715-0911
- Electronics**
- Basic Communications-Electronics Installation
AR-1714-0034
- Communication Electronics Radio Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0685
- Communications and Electronics Staff Officer
AR-1715-0226
- Communications-Electronics Basic Installer
AR-1714-0034
- Communications-Electronics Maintenance Advanced Noncommissioned Officer (NCO)
AR-1715-0851
- Communications-Electronics Maintenance Chief Advanced Noncommissioned Officer (NCO)
AR-1402-0155
- Communications-Electronics Repair Technician Senior Warrant Officer
AR-1715-0860
- Communications-Electronics Technician Warrant Officer Technical Certification Reserve Component Phases 2 and 4
AR-1715-0858
- Electronics Equipment Maintenance Advanced Noncommissioned Officer (NCO)
AR-1406-0107

Organizational Communications-Electronics (C-E) Operator/Mechanics	AR-1715-0791	Special Operations Engineer Sergeant Reserve Component Phase 4	AR-1710-0152	Environmental	Basic Environmental Coordinator's	AR-0707-0011
Pershing Electronics Materiel Specialist Advanced Noncommissioned Officer (NCO)	AR-2201-0291	Watercraft Engineer	AR-1710-0164		Basic Environmental Staff	AR-0707-0011
Pershing Electronics Repairer	AR-1715-0752	Watercraft Engineer Advanced Noncommissioned Officer (NCO)	AR-1712-0019	Equal	Equal Opportunity Representative	AR-0505-0001
Pershing Electronics Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0751	Watercraft Engineer Basic Noncommissioned Officer (NCO)	AR-1712-0018	Equipment	Advanced Mobile Subscriber Equipment (MSE) Node Switch/Large Extension Node Switch Operator	AR-1715-0872
Pershing II Electronics Materiel Specialist	AR-1715-0823	Watercraft Engineer Certification (88L20)	AR-1722-0007		Air Traffic Control Systems, Subsystems, and Equipment Repairer	AR-1715-0787
Pershing II Electronics Materiel Specialist Advanced Noncommissioned Officer (NCO)	AR-2201-0291	Watercraft Engineer Primary Technical	AR-1712-0002		Air Traffic Control Systems, Subsystems, and Equipment Repairer Supervisor Advanced Noncommissioned Officer (NCO)	AR-1704-0172
Emitter		Engineering			Automatic Test Equipment Operator/Maintainer	AR-1715-0850
Electronic Warfare (EW)/Signals Intelligence (SIGINT) Emitter Locator/Identifier Basic Noncommissioned Officer (NCO)	AR-2201-0316	Combat Engineering Advanced Noncommissioned Officer	AR-1601-0082		Avionic Communication Equipment Repairer	AR-1715-0868
Emitter Location/Identification Technician Warrant Officer Technical Certification	AR-1408-0135	Facilities Engineering Supply System Management	AR-1405-0145		Avionics Equipment Maintenance Supervisor Advanced Noncommissioned Officer (NCO)	AR-1704-0179
Emitter Locator/Identifier	AR-1409-0011	Knowledge Engineering and Basic Expert Systems Building	AR-1402-0099		Avionics Special Equipment Repair	AR-1715-0660
Enforcement		Marine Engineering Officer A2 Certification	AR-1712-0021		Biomedical Equipment Maintenance Orientation	AR-1715-0619
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Engine		Marine Engineering Officer Warrant Officer Technical/Tactical Certification	AR-1712-0020		Construction Equipment Operator	AR-1710-0089
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Turbine Engine Driver Generator Repairer	AR-1704-0181	Technical Engineering Supervisor Basic Noncommissioned Officer (NCO)	AR-1601-0090		Construction Equipment Repairer	AR-1710-0167
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Combat Engineer Basic Noncommissioned Officer (NCO)	AR-1601-0086	English			Construction Equipment Supervisor Basic Noncommissioned Officer (NCO)	AR-1601-0083
Engineer Equipment Repair Technician Senior Warrant Officer	AR-1712-0022	English 3200: Programmed Course in Grammar and Usage	AR-0602-0007		Defense Against Sound Equipment (DASE), Phase 1	AR-1715-0711
Engineer Equipment Repair Technician Senior Warrant Officer Reserve	AR-1712-0023	Entitlements			Electronics Equipment Maintenance Advanced Noncommissioned Officer (NCO)	AR-1406-0107
Engineer Equipment Repair Technician Warrant Officer Technical Tactical Certification Reserve	AR-1601-0093	Travel Administration and Entitlements	AR-1401-0049		Engineer Equipment Repair Technician Senior Warrant Officer	AR-1712-0022
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Engineer Pre-Command	AR-1408-0202	Initial Entry Rotary-Wing Aviator (AH-1)	AR-1606-0185		Equipment Operation/Maintenance Test Set, Guided Missile System (TOW-Ground)	AR-1715-0737
Engineer Tracked Vehicle Crewman	AR-1710-0175	Initial Entry Rotary-Wing Aviator (OH-58)	AR-1606-0184			
Engineer Tracked Vehicle Crewman Basic Noncommissioned Officer (NCO)	AR-1703-0062	Initial Entry Rotary-Wing Aviator (UH-1)	AR-1606-0183			
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Special Forces Engineer Sergeant Advanced Noncommissioned Officer (NCO)	AR-2201-0404	Initial Entry Rotary-Wing Aviator Common Core	AR-1606-0181			
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		Track Vehicle Mechanic Initial Entry Training	AR-1703-0043			

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Advanced Individual Training
AR-1405-0175

Field Communications Security (COMSEC)
Equipment Full Maintenance
AR-1715-0677

Field Communications Security (COMSEC)
Equipment Repair
AR-1715-0661

Fixed Communications Security (COMSEC)
Equipment Repair (Transition 32G)
AR-1715-0681

Fixed Cryptographic Equipment Repair
Transition 32F
AR-1715-0681

General Construction Equipment Operator
AR-1710-0086
AR-1710-0169

Hawk Field Maintenance Equipment/Pulse
Acquisition Radar Repairer Basic Noncom-
missioned Officer (NCO)
AR-1715-0742

Heavy Construction Equipment Operator
AR-1710-0084
AR-1710-0170

Lifting and Loading Equipment Operator
AR-1710-0092

Medical Equipment Repairer (Unit Level)
AR-1715-0759

Medical Equipment Repairer Advanced
AR-1715-0639

Meteorological Equipment Maintenance
AR-1715-0835

Meteorological Equipment Maintenance
Meteorological Data System
AR-1715-0835

Meteorological Equipment Maintenance
Meteorological Data Systems
AR-1715-0835

Mobile Subscriber Equipment (MSE) Central
Office Repairer
AR-1715-0876

Mobile Subscriber Equipment (MSE) Net-
work Switching System Operator
AR-1715-0886

Mobile Subscriber Equipment (MSE) Net-
work Switching System Operator Basic
Noncommissioned Officer (NCO)
AR-1404-0044

Mobile Subscriber Equipment (MSE) Sys-
tem Planner/System Control Center Operator
AR-1715-0875

Mobile Subscriber Equipment (MSE) Sys-
tems Maintainer
AR-1715-0873
AR-1715-0885

Mobile Subscriber Equipment (MSE) Trans-
mission System Operator
AR-1715-0884

New Equipment Training Management
AR-1405-0225

Organizational Maintenance Shop (OMS)/
Unit Training Equipment Site (UTES)
AR-1405-0209

Organizational Maintenance Shop (OMS)/
Unit Training Equipment Site (UTES) Tool
and Parts Attendant
AR-1405-0210

Power Generation Equipment Repairer
AR-1732-0013

Quartermaster Chemical Equipment
Repairer
AR-1710-0159

Quartermaster/Chemical Equipment
Repairer
AR-1710-0095

Quartermaster/Chemical Equipment
Repairer Basic Technical
AR-1710-0095

Quartermaster/Chemical Equipment
Repairer Transition
AR-1710-0160

Senior Utilities Quartermaster/Chemical
Equipment Repairer Basic Noncommis-
sioned Officer (NCO) Technical Portion
AR-1601-0080

Senior Utilities, Quartermaster/Chemical
Equipment Repairer Basic Noncommis-
sioned Officer (NCO) Common Core
AR-1406-0142

Special Purpose Equipment Repairer Non-
commissioned Officer (NCO) Advanced
AR-1710-0133

Tactical Air Traffic Control Systems, Sub-
systems, and Equipment Repairer
AR-1715-0787

Teletypewriter Equipment Repairer
AR-1715-0848

Television Equipment Specialist
AR-1715-0934

USAF Apprentice Construction Equipment
Operator
AR-1710-0170

Utilities Equipment Repairer
AR-1701-0003
AR-1702-0003

Utilities Equipment Repairer Basic Noncom-
missioned Officer (NCO)
AR-1406-0143

Watchmate Equipment Maintenance Train-
ing
AR-1715-0788

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Force Modernization and Sustaining (Equip-
ping the Force)
AR-1408-0118

Force Modernization Management (Equip-
ping the Force)
AR-1408-0118

Escape

Survival, Evasion, Resistance, and Escape
(SERE) High Risk
AR-0803-0007

Survival, Evasion, Resistance, and Escape
(SERE) Instructor Qualification
AR-0803-0015

Escort

Technical Escort
AR-0802-0001

Estimating

Cost Estimating for Engineers
AR-0301-0003

Cost Estimating for Engineers by Correspon-
dence
AR-0301-0004

European

Digital European Backbone (DEB) Commu-
nications System Repair
AR-1715-0666

Evacuation

Aeromedical Evacuation Officer
AR-0799-0018

Evasion

Survival, Evasion, Resistance, and Escape
(SERE) High Risk
AR-0803-0007

Survival, Evasion, Resistance, and Escape
(SERE) Instructor Qualification
AR-0803-0015

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Electronic Warfare (EW) Analyst
AR-2201-0313

Electronic Warfare (EW) Operations Phase 1
AR-1715-0822

Electronic Warfare (EW) Signal Intelligence
(SIGINT) Noncommunications Interceptor
AR-1715-0710

Electronic Warfare (EW) Signals Intelli-
gence (SIGINT) Non Morse Interceptor
Basic Noncommissioned Officer (NCO)
AR-1717-0078

Electronic Warfare (EW) Signals Intelli-
gence (SIGINT) Voice Interceptor Basic
Noncommissioned Officer (NCO)
AR-1715-0728

Electronic Warfare (EW)/Cryptographic
Advanced Noncommissioned Officer (NCO)
AR-1406-0126

Electronic Warfare (EW)/Cryptologic
Advanced Noncommissioned Officer (NCO)
AR-2201-0037

Electronic Warfare (EW)/Intercept Aerial
Sensor Repairer
AR-1715-0713

Electronic Warfare (EW)/Intercept Aerial
Sensor Repairer Phase 2
AR-1715-0869

Electronic Warfare (EW)/Intercept Aviation
Equipment Repairer Basic Noncommis-
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AR-1715-0714

Electronic Warfare (EW)/Intercept Aviation
Systems Repairer
AR-1715-0715

Electronic Warfare (EW)/Intercept Equip-
ment Repair Technician Warrant Officer
Technical Certification
AR-1408-0132

Electronic Warfare (EW)/Intercept Strategic
Receiving Subsystem Repairer
AR-1715-0827

Electronic Warfare (EW)/Intercept Strategic
Receiving Subsystem Repairer Basic Non-
commissioned Officer (NCO)
AR-1715-0717

Electronic Warfare (EW)/Intercept Strategic
Signal Processing and Storage Subsystem
Repairer Basic Noncommissioned Officer
(NCO)
AR-1715-0719

Electronic Warfare (EW)/Intercept Strategic
Signal Processing/Storage Subsystem
Repairer
AR-1715-0718

Electronic Warfare (EW)/Intercept Strategic
Systems Analyst and Command and Control
Subsystems Repairer
AR-1715-0720

Electronic Warfare (EW)/Intercept Strategic
Systems Analyst and Command and Control
Subsystems Repairer Basic Noncommis-
sioned Officer (NCO)
AR-1715-0721

Electronic Warfare (EW)/Intercept System
Maintenance Analyst Advanced Noncom-
missioned Officer (NCO)
AR-1406-0127

Electronic Warfare (EW)/Intercept Tactical
Systems Repairer
AR-1715-0722

Electronic Warfare (EW)/Intercept Tactical
Systems Repairer Basic Noncommissioned
Officer (NCO)
AR-1715-0723

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Electronic Warfare (EW)/Signal Intelligence (SIGINT) Morse Interceptor AR-1409-0012	Expert Systems Architecture and Object-Oriented Programming AR-1402-0098	Familiarization Operations Research and Systems Analysis (ORSA) Familiarization by Correspondence AR-1115-0014
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Marine Field Artillery Fire Controlman AR-1601-0055

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	Fixed	Food Service Technician Senior Warrant Officer, Reserve AR-1729-0036
	Fixed Ciphony Repairer AR-1715-0687	Food Service Technician Warrant Officer Advanced AR-1408-0157
	Fixed Ciphony Repairer (Transition) (32G) AR-1715-0687	Food Service Technician Warrant Officer Basic AR-1729-0034
	Fixed Communication Security (COMSEC) Supervisor Basic Noncommissioned Officer (NCO) AR-1715-0771	Food Service Technician Warrant Officer Technical/Tactical Certification AR-1729-0034
	Fixed Communications Security (COMSEC) Equipment Full Maintenance AR-1715-0764	
	Fixed Communications Security (COMSEC) Equipment Repair AR-1715-0669	

- Food Service Technician Warrant Officer
Technical/Tactical Certification Reserve
Component AR 1729-0037
- Hospital Food Service Management AR 1729-0043
- Hospital Food Service Specialist AR 1729-0004
AR 1729-0050
- Hospital Food Service Specialist (Basic)
Reserve Component AR 1729-0044
- Hospital Food Service Specialist Advanced AR 0104-0006
- Veterinary Food Inspection Specialist AR 0104-0002
- Veterinary Food Inspection Specialist
(Basic) (Reserve Component) Phase 2 AR 0104-0011
- Veterinary Food Inspection Specialist
Advanced AR 0104-0001
- Veterinary Food Inspection Specialist Basic AR 0104-0013
- Force**
- Force Modernization and Sustaining (Equip-
ping the Force) AR 1408-0118
- Force Modernization Management (Equip-
ping the Force) AR 1408-0118
- Small Unit Leader's Force Protection AR 0802-0027
- Tactical All-Source Intelligence Officer
Force Alignment Plan 3 AR 1728-0087
- Forces**
- Ground Mobile Forces Interface Subsystem AR 1715-0695
- Special Forces Operations and Intelligence
Resident/Nonresident Phase 2 AR 1511-0020
- Special Operations Forces Pre-Command AR 2201-0400
- Foreign**
- Foreign Instrumentation Signals External
Analysis AR 1715-0729
- Foreign Internal Defense/Internal Defense
and Development AR 1511-0025
- Forensic**
- Forensic Photography AR 1728-0118
- Forward**
- Air Defense Artillery Officer Basic (Forward
Area Air Defense Officer Track) AR 2201-0427
- Forward Area Air Defense Officer Reclassifi-
cation, Phase 2 AR 2201-0415
- Forward Area Alerting Radar (FAAR) Oper-
ator AR 1715-0808
- Forward Area Alerting Radar (FAAR) Orga-
nizational Maintenance AR 1715-0585
- Forward Area Alerting Radar (FAAR) Repair AR 1715-0169
- Forward Area Alerting Radar (FAAR)
Repairer AR 1715-0169
- Forward Area Alerting Radar (FAAR)
Repairer Basic Noncommissioned Officer
(NCO) AR 1715-0642
- Line of Sight Forward-Heavy Crewmember AR 1715-0942
- Fraud**
- Advanced Fraud Investigation AR 1728-0063
- Freefall**
- Military Freefall Jumpmaster AR 2201-0344
- Military Freefall Parachutist AR 2201-0345
- Special Forces Military Freefall Jumpmaster AR 2201-0344
- Special Forces Military Freefall Parachutist AR 2201-0345
- Freight**
- Basic Freight Traffic AR 0419-0044
AR 0419-0057
- Fuel**
- Fuel and Electrical Systems Repairer AR 1703-0026
AR 1703-0061
- M1 Abrams Fuel and Electrical Systems
Repairer AR 1714-0029
- Functional**
- Commodity Command Standard System
(CCSS) Functional AR 1405-0118
- Commodity Command Standard System
(CCSS) Functional by Correspondence AR 1405-0231
- Commodity Command Standard System
Functional AR 1405-0244
- Fund**
- Nonappropriated Chaplains' Fund Clerk AR 1408-0130
- Nonappropriated Chaplains' Fund Custodian AR 1408-0131
- Fundamentals**
- Contracting Fundamentals AR 0326-0053
- Contracting Fundamentals by Correspon-
dence AR 0326-0054
- Satellite Communication (SATCOM) Funda-
mentals AR 1715-0679
- General**
- Adjutant General Officer Advanced AR 1408-0168
- Adjutant General Officer Advanced (Com-
pany Command Module) Reserve Compo-
nent Phase 1 AR 1408-0201
- Adjutant General Officer Basic AR 1408-0200
- Chaplain Reserve Component General Staff
College AR 1408-0128
- General Supply Technician Warrant Officer
Technical Certification AR 1405-0170
- Judge Advocate General Officer Basic Phase
1 AR 1728-0114
- SHORADS Direct Support/General Support
(DS/GS) Maintenance Repair Technician AR 1715-0897
- Generation**
- Power Generation Equipment Repairer AR 1732-0013
- Power Generation Equipment Repairer Basic
Noncommissioned Officer (NCO) Common
Core AR 1406-0141
- Wheel and Power Generation Unit Mainte-
nance AR 1704-0171
- Generator**
- Turbine Engine Driven Generator Repairer
Basic Noncommissioned Officer (NCO)
Common Core AR 1406-0140
- Turbine Engine Driven Generator Repairer AR 1704-0181
- Graphics**
- Graphics Documentation Specialist Basic
Noncommissioned Officer (NCO) AR 0202-0001
- Graphics Documentation Specialist Basic
Noncommissioned Officer (NCO) 25Q30 AR 0202-0001
- Graves**
- Graves Registration Officer AR 0709-0047
- Graves Registration Specialist AR 0709-0038
- Graves Registration Specialist Advanced
Noncommissioned Officer (NCO) AR 0709-0037
- Graves Registration Specialist Basic Techni-
cal AR 0709-0027
- Ground**
- Air Traffic Control Ground Control
Approach Specialist AR 1704-0003
- Defense Satellite Communications System
(DSCS) Ground Mobile Forces (GMF) Con-
troller AR 1715-0691
- Ground Control Radar Repair AR 1715-0199
- Ground Mobile Forces Interface Subsystem AR 1715-0695
- Ground Surveillance System Operator Basic
Noncommissioned Officer (NCO) AR 1606-0207
- Ground Surveillance System Supervisor AR 1606-0207
- Ground Surveillance Systems Operator
(Ground Surveillance Radar Crewman) AR 1715-0178
- Joint Surveillance Target Attack Radar Sys-
tem (JSTARS) Ground Station Module (GSM)
Operator/Supervisor AR 1715-0870
- Guard**
- Armor Officer Basic National Guard/Army
Reserve AR 1710-0136
- Military Enlistment Processing Station
(MEPS) Guidance Counselor National
Guard (ARNG) AR 2201-0352
- National Guard (ARNG) Advanced
Recruiter and Sales AR 1406-0134

National Guard (ARNG) Recruiter and Sales	AR-1406-0139	Handling	Hawk Missile Air Defense Artillery Officer Reclassification Reserve	AR-1715-0949
National Guard (ARNG) Recruiting and Retention Detachment Commander	AR-1408-0183	Materiel Storage and Handling Specialist Advanced Individual Training	Hawk Missile Air Defense Artillery Officer Reclassification, Reserve	AR-2201-0419
National Guard (ARNG) Recruiting Field Sales Manager	AR-1408-0185	Materiel Storage and Handling Specialist Advanced Noncommissioned Officer (NCO)	Hawk Missile Crew Member	AR-1715-0511
National Guard (ARNG) Retention Non- commissioned Officer (NCO)	AR-2201-0388	AR-1405-0179	Hawk Missile Support Repair Technician (DS/GS)	AR-1715-0647
National Guard Officer Candidate	AR-2201-0300	Hawk	Hawk Missile System Crewmember	AR-1715-0939
National Guard Recruiting Advanced	AR-1406-0101	Air Defense Artillery (ADA) Officer Advanced Follow-On Training Hawk Track	Hawk Missile System Crewmember (Transi- tion)	AR-1715-0954
Guardrail		Air Defense Artillery Officer Advanced Hawk Follow-On	Hawk Missile System Mechanic	AR-1715-0946
Guardrail Systems Qualification	AR-1715-0913	AR-1715-0803	Hawk Missile System Mechanic (Transition)	AR-1715-0943
Guardrail V System Qualification (RU-21 (Guardrail V) (2R)) (RU-21 (Guardrail) Sys- tems Qualification)	AR-1715-0569	Air Defense Artillery Officer Basic Hawk Track (PIP 2) Track	AR-1715-0944	
Improved Guardrail V Operator	AR-1715-0893	Hawk Advanced Noncommissioned Officer (NCO)	Hawk Missile System Technician Warrant Officer Technical/Tactical Certification	AR-1715-0947
RC-12D Improved Guardrail Systems Quali- fication (RC-12D (Improved Guardrail V) Systems Qualification)	AR-1715-0568	Hawk Continuous Wave (CW) Radar Repairer	Hawk Missile System Technician Warrant Officer Technical/Tactical Certification (PIP 2)	AR-1715-0957
Guidance		AR-1715-0738	Hawk Missile System Technician/Master Mechanic (PIP 3) Transition	AR-1715-0955
Guidance Counselor	AR-1406-0160	Hawk Continuous Wave (CW) Radar Repairer Basic Noncommissioned Officer (NCO)	Hawk Missile System with Computer Upgrade (Phase 2 A) (Maintainer)	AR-1715-0950
Military Enlistment Processing Station (MEPS) Guidance Counselor National Guard (ARNG)	AR-1408-0184	AR-1715-0743	Hawk Missile System with Computer Upgrade (Phase 2 A) (Operator)	AR-1715-0952
	AR-2201-0352	Hawk Field Maintenance Equipment/Pulse Acquisition Radar Repairer	Hawk Missile System with Computer Upgrade (Phase 3 A) (Maintainer)	AR-1715-0960
Guided Missile		AR-1715-0745	Hawk Missile System with Computer Upgrade (Phase 3 A) Operator	AR-1715-0958
Equipment Operation/Maintenance Test Set Guided Missile Set (TOW Ground)	AR-1715-0565	Hawk Field Maintenance Equipment/Pulse Acquisition Radar Repairer Basic Noncom- missioned Officer (NCO)	Hawk Officer	AR-1715-0382
Equipment Operation/Maintenance Test Set, Guided Missile System (TOW-Ground)	AR-1715-0737	AR-1715-0742	AR-1715-0959	
Gunner		Hawk Fire Control Crew Member	Hawk Pulse Acquisition Radar Mechanic	AR-1715-0961
BIFV System Master Gunner	AR-2201-0431	AR-1715-0818	Hawk Pulse Radar Repairer Basic Noncom- missioned Officer (NCO)	AR-1715-0742
Bradley Infantry Fighting Vehicle Gunner	AR-1710-0063	Hawk Fire Control Maintenance	Hawk Pulse Radar Repairer Transition	AR-1715-0744
M1/M1A1 Abrams Master Gunner	AR-2201-0328	Hawk Fire Control Mechanic (PIP II)	Hawk Radar Signal Simulator Station Repairer	AR-1715-0397
M1/M1A1 Abrams Master Gunner Transi- tion	AR-2201-0329	AR-1715-0821	Hawk System Technician/Master Mechanic PIP 3 Transition	AR-1715-0955
M1/M1A1 Master Gunner Transition	AR-2201-0329	Hawk Fire Control Repairer	Hawk Weapon System Qualification (Phase 3) Air Defense Artillery Officer Basic	AR-2201-0425
Master Gunner M60A1	AR-2201-0334	AR-1715-0739	Improved Hawk Information and Coordina- tion Central Maintenance Transition (PIP)	AR-1715-0499
Master Gunner M60A3 Transition	AR-2201-0336	Hawk Fire Control Repairer Basic Noncom- missioned Officer (NCO)	Improved Hawk Master Mechanic	AR-1715-0521
OSUT-Dragon Gunner	AR-2201-0448	AR-1715-0741	Improved Hawk Officer	AR-1715-0382
TOW Master Gunner	AR-2201-0458	Hawk Fire Control/Continuous (CW) Wave Radar Repairer Transition	Improved Hawk Organizational Mainte- nance Supervisor/Master Mechanic (PIP 2) Transition	AR-1715-0574
Gunnery		AR-1715-0905	Improved Hawk Radar Signal Simulator Sta- tion Repairer	AR-1715-0397
OH-58 Transition/Gunnery Instructor Pilot (IP) Qualification	AR-1606-0047	Hawk Firing Section Mechanic (PIP II)		
Special Career Level Artillery Advanced Gunnery (USMC)	AR-2201-0378	AR-1715-0814		
Gynecological		Hawk Firing Section Mechanic Transition		
Obstetrical and Gynecological Nursing	AR-0703-0023	AR-1715-0945		
		Hawk Firing Section Repairer		
		AR-1715-0909		
		Hawk Firing Section Repairer Basic Non- commissioned Officer (NCO)		
		AR-1715-0907		
		Hawk Information Coordination Central Mechanic (PIP 2)		
		AR-1715-0815		
		Hawk Information Coordination Central Mechanic Transition		
		AR-1715-0940		
		Hawk Launcher and Mechanical Systems Repairer Basic Noncommissioned Officer (NCO)		
		AR-1715-0740		
		Hawk Maintenance Chief (PIP 3)		
		AR-1715-0906		
		Hawk Master Mechanic		
		AR-1715-0799		
		AR-1715-0802		

Hazardous

Munitions/Hazardous Materials Fire Fighting
AR-0802-0076

Health

Army Medical Department (AMEDD)
Officer Basic Health Professions Scholarship Program
AR-0801-0008

Health Physics Specialist
AR-0705-0009

Health Services Human Resources Manager
AR-1408-0219

Health Services Maintenance Technician
AR-0799-0019

Health Services Warrant Officer Basic
AR-0799-0019

Nurse Practitioner Adult Medical-Surgical Health Care
AR-0703-0020

Prime Power Production Specialist (Health Physics and Plant Chemistry Specialty)
AR-1720-0002

Psychiatric Mental Health Nurse
AR-0708-0003

Heavy

Basic Noncommissioned Officer (NCO) 11H Heavy Antiarmor Weapons Infantryman
AR-2201-0433

CH-47 Medium/CH-54 Heavy Lift Helicopter Repairer Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0165

CH-54 Heavy Lift Helicopter Repairer Reserve Component
AR-1704-0148

Heavy Antiarmor Weapons Infantryman Advanced Noncommissioned Officer (NCO)
AR-2201-0436

Heavy Construction Equipment Operator
AR-1710-0170

Heavy Lift Helicopter Repairer Basic Technical
AR-1704-0118

Heavy Wheel Vehicle Mechanic
AR-1703-0037

Heavy Wheel Vehicle Recovery Specialist
AR-1710-0117

Line of Sight-Forward-Heavy Crewmember
AR-1715-0942

OSUT-Heavy Weapons Antiarmor Infantryman
AR-2201-0446

Refresher Course, Heavy Wheel Vehicle Mechanic Individual Ready Reserve
AR-1703-0036

Unit Maintenance Technician (Heavy) Senior Warrant Officer
AR-1717-0101

Unit Maintenance Technician (Heavy) Senior Warrant Officer Reserve Component, Phase 2 and 4
AR-1717-0098

Helicopter

AH-1 Attack Helicopter Repairer
AR-1704-0095

AH-1 Attack Helicopter Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0153

AH-1 Attack Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0153

AH-1 Attack OH-58A/C Observation/Scout Helicopter Repairer Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0188

AH-64 Attack Helicopter Repairer
AR-1704-0156

AH-64 Attack Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1717-0090

AH-64 Attack Helicopter Repairer Transition
AR-1704-0158

AH-64 Attack OH-58D Scout Helicopter Repairer Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0163

Attack Helicopter Repairer
AR-1704-0095

Attack Helicopter Repairman
AR-1704-0095

Attack Helicopter Technical Inspector
AR-1704-0127

CH-47 Helicopter Repairer
AR-1704-0154

CH-47 Helicopter Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0151

CH-47 Helicopter Repairer Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0165

CH-47 Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0151

CH-47 Medium Helicopter Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0151

CH-47 Medium/CH-54 Heavy Lift Helicopter Repairer Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0165

CH-54 Heavy Lift Helicopter Repairer Reserve Component
AR-1704-0148

CH-54 Helicopter Repairer
AR-1704-0130

Heavy Lift Helicopter Repairer Basic Technical
AR-1704-0118

Medium Helicopter Repairer (CH-47)
AR-1704-0154

Observation/Scout Helicopter Repairer
AR-1704-0066

Observation/Scout Helicopter Repairer (OH-6)
AR-1704-0093

Observation/Scout Helicopter Technical Inspector
AR-1704-0126

OH-58 Helicopter Repairer
AR-1704-0066

OH-58 Observation/Scout Helicopter Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0152

OH-58D Advanced Scout Helicopter Repairer
AR-1704-0194

OH-58D Helicopter Repairer
AR-1704-0194

OH-58D Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0202

OH-58D Scout Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0202

OH-6 RC Observation/Scout Helicopter Repairer Reserve Component
AR-1704-0155

Tactical Transport Helicopter Repairer Basic Noncommissioned Officer (NCO) Reserve Component
AR-1704-0195

Tactical Transport Helicopter Technical Inspector
AR-1704-0162

UH-1 Helicopter Repairer
AR-1704-0205

UH-1 Helicopter Repairer Basic Noncommissioned Officer (NCO) Reserve Component
AR-1704-0189

UH-1 Utility Helicopter Repairer Basic Noncommissioned Officer (NCO)
AR-1717-0089

UH-1 Utility Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1717-0089

UH-1 Utility Helicopter Technical Inspector
AR-1704-0123

UH-60 Helicopter Repairer
AR-1704-0204

UH-60 Helicopter Repairer Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0164

UH-60 Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0150

UH-60 Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO) Reserve Component
AR-1704-0195

UH-60 Helicopter Repairer Transition
AR-1704-0018

UH-60 Tactical Transport Helicopter Basic Noncommissioned Officer (NCO)
AR-1704-0150

UH-60 Tactical Transport Helicopter Repairer
AR-1704-0204

Utility Helicopter Repairer (UH-1)
AR-1704-0033

Utility Helicopter Repairer Basic Noncommissioned Officer (NCO) Reserve Component
AR-1704-0189

Utility Helicopter Technical Inspector
AR-1704-0123

Utility/Tactical Transport Helicopter Repairer Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0164

Hercules

Hercules Electronic Mechanic
AR-1715-0084

Nike Hercules Electronic Maintenance
AR-1715-0084

Nike Hercules Officer
AR-2201-0095

Hospital

Hospital Food Service Management
AR-1729-0043

Hospital Food Service Specialist
AR-1729-0004

Hospital Food Service Specialist (Basic) Reserve Component
AR-1729-0050

Hospital Food Service Specialist Advanced
AR-1729-0044

Hospital Food Service Specialist Advanced
AR-0104-0006

Hostage	Hostage Negotiations	AR-1728-0067
Human	Health Services Human Resources Manager	AR-1408-0219
	Human Immunodeficiency Virus (HIV)/Sexually Transmitted Diseases (STD) Intervention	AR-0707-0015
Hygiene	Basic Industrial Hygiene Technician	AR-0707-0018
	Dental Hygiene	AR-0701-0002
	Intermediate Industrial Hygiene Topics	AR-0707-0021
Identification	Advanced Identification Techniques Analyst	AR-2201-0317
	Emitter Identification Techniques	AR-2201-0317
	Emitter Location/Identification Technician	AR-1408-0135
	Warrant Officer Technical Certification	AR-1408-0135
IFV	ITV/IFV/CFV Systems Mechanic Recovery Specialist	AR-1703-0047
Imagery	Imagery Analyst	AR-1606-0193
	Imagery Analyst Basic Noncommissioned Officer (NCO)	AR-1606-0191
	Imagery Intelligence Technician Warrant Officer Technical/Tactical Certification	AR-1606-0200
	Military Intelligence Officer Advanced (Imagery Exploitation)	AR-1606-0194
	Warrant Officer Technical/Tactical Certification Phase 2 350D Imagery Intelligence Technician	AR-1606-0200
Immunodeficiency	Human Immunodeficiency Virus (HIV)/Sexually Transmitted Diseases (STD) Intervention	AR-0707-0015
Improved	Improved Hawk Information and Coordination Central Maintenance Transition (PIP)	AR-1715-0499
	Improved Hawk Master Mechanic	AR-1715-0521
	Improved Hawk Officer	AR-1715-0382
	Improved Hawk Organizational Maintenance Supervisor/Master Mechanic (PIP 2) Transition	AR-1715-0574
	Improved Hawk Radar Signal Simulator Station Repairer	AR-1715-0397
Improvement	Reading Improvement	AR-0306-0001
Indirect	Basic Noncommissioned Officer (NCO)	AR-2201-0440
	Indirect Fire Infantryman	AR-2201-0440
	Indirect Fire Infantryman	AR-2201-0311
	Indirect Fire Infantryman Advanced Noncommissioned Officer (NCO)	AR-2201-0430
	Indirect Fire Infantryman Phase 1, Phase 2, Prior Service	AR-2201-0311
	OSUT-Indirect Fire Infantryman	AR-2201-0447
Industrial	Basic Industrial Hygiene Technician	AR-0707-0018
	Directorate of Industrial Operations	AR-1408-0075
Inertial	Inertial Navigation Set AN/ASN-86 Repair	AR-1715-0688
Infantry	Basic Infantry Officer	AR-2201-0192
	Bradley Infantry Fighting Vehicle Commander	AR-1710-0062
	Bradley Infantry Fighting Vehicle Gunner	AR-1710-0063
	Infantry Mortar Leader	AR-2201-0085
	Infantry Mortar Platoon	AR-2201-0451
	Infantry Officer Advanced	AR-2201-0435
	Infantry Officer Advanced Reserve Component	AR-2201-0437
	Infantry Officer Basic	AR-2201-0192
	Infantry Officer Basic Reserve Component	AR-2201-0428
	Infantry Pre-Command	AR-2201-0438
	Infantry Precommand	AR-2201-0450
	Maneuver Combat Arms Infantry Noncommissioned Officer (NCO) Advanced	AR-2201-0181
Infantryman	Basic Noncommissioned Officer (NCO) 11B Infantryman	AR-2201-0439
	Basic Noncommissioned Officer (NCO) 11H Heavy Antiarmor Weapons Infantryman	AR-2201-0433
	Bradley Fighting Vehicle Infantryman	AR-2201-0276
	Bradley Fighting Vehicle Infantryman Phase 1, Phase 2, Prior Service	AR-2201-0276
	Fighting Vehicle Infantryman	AR-2201-0445
	Fighting Vehicle Infantryman Advanced Noncommissioned Officer (NCO)	AR-2201-0432
	Heavy Antiarmor Weapons Infantryman	AR-2201-0279
	Heavy Antiarmor Weapons Infantryman Advanced Noncommissioned Officer (NCO)	AR-2201-0436
	Heavy Antiarmor Weapons Infantryman Phase 1, Phase 2, Prior Service	AR-2201-0279
	Indirect Fire Infantryman	AR-2201-0311
	Indirect Fire Infantryman Advanced Noncommissioned Officer (NCO)	AR-2201-0430
	Indirect Fire Infantryman Phase 1, Phase 2, Prior Service	AR-2201-0311
	Infantryman Advanced Noncommissioned Officer (NCO)	AR-2201-0452
	Light Weapons Infantryman	AR-2201-0310
	Light Weapons Infantryman Phase 1, Phase 2, Prior Service	AR-2201-0310
	OSUT-Indirect Fire Infantryman	AR-2201-0447
Infiltration	Waterborne Infiltration	AR-0803-0014
Information	Automated Information Systems Contracting	AR-1408-0120
	Defense Contracting for Information Resource	AR-1408-0192
	Defense Contracting for Information Resources	AR-1408-0120
	Director of Information Management (DOIM)/Echelons Above Corps (EAC) Operations Officer	AR-1402-0096
	Hawk Information Coordination Central Mechanic (PIP 2)	AR-1715-0815
	Hawk Information Coordination Central Mechanic Transition	AR-1715-0940
	Improved Hawk Information and Coordination Central Maintenance Transition (PIP)	AR-1715-0499
	Information Systems Operator	AR-1402-0117
	Information Systems Operator Basic Noncommissioned Officer (NCO)	AR-1402-0116
	Network Management/Information Systems Staff Officer	AR-1402-0154
	Personnel Information System Management Specialist	AR-1403-0013
	Personnel Information Systems Management Specialist Basic Noncommissioned Officer (NCO)	AR-1405-0196
	Supply Accounting Management Information System	AR-1402-0136
	Visual Information Advanced Noncommissioned Officer (NCO)	AR-1719-0005
	Visual Information/Audio Documentation Systems Specialist Basic Noncommissioned Officer (NCO)	AR-1719-0004
Initial	Initial Entry Rotary-Wing Aviator (AH-1)	AR-1606-0185
	Initial Entry Rotary-Wing Aviator (OH-58)	AR-1606-0184
	Initial Entry Rotary-Wing Aviator (UH-1)	AR-1606-0183
	Initial Entry Rotary-Wing Aviator (UH-60)	AR-1606-0182

- Initial Entry Rotary Wing Aviator Common Core
AR-1606-0181
- Medical Laboratory Specialist (MLT) Initial Entry Training
AR-0702-0018
- Inspection**
- Veterinary Food Inspection Specialist
AR-0104-0002
- Veterinary Food Inspection Specialist (Basic) (Reserve Component) Phase 2
AR-0104-0011
- Veterinary Food Inspection Specialist Advanced
AR-0104-0001
- Veterinary Food Inspection Specialist Basic
AR-0104-0013
- Inspector**
- Aircraft Armament Technical Inspector
AR-1704-0146
- Ammunition Inspector
AR-2201-0056
AR-2201-0390
- Ammunition Inspector Advanced Noncommissioned Officer (NCO)
AR-2201-0393
- Inspector General
AR-1408-0126
- Military Ammunition Inspector
AR-2201-0056
- OV-1 Observation Airplane Technical Inspector
AR-1704-0161
- Tactical Transport Helicopter Technical Inspector
AR-1704-0162
- Installation**
- Army Installation Management
AR-1408-0186
- Installation Chaplain
AR-1406-0084
- Installation Logistics Management
AR-1408-0116
AR-1408-0216
- Installation Provost Marshal
AR-1728-0068
- Installation Security
AR-1728-0077
- Installation Traffic Management
AR-0419-0036
AR-0419-0059
- Installation Veterinary Services
AR-0102-0003
AR-0102-0008
- Management of Installation Level Contracts
AR-1408-0190
- Standard Property Book System-Redesigned-Installation/Table of Distribution and Allowances
AR-1405-0166
- Installer**
- Cable Systems Installer/Maintainer
AR-1714-0015
- Wire Systems Installer Basic Noncommissioned Officer (NCO)
AR-1715-0618
- Wire Systems Installer Primary Technical
AR-1715-0618
- Instruction**
- AH-64 Instructor Pilot Methods of Instruction
AR-1406-0121
- OH-58 Aeroscout Instructor Pilot Methods of Instruction
AR-1606-0165
- OH-58D Instructor Pilot Methods of Instruction (MOI)
AR-1406-0118
- T-42 Instructor Pilot (IP) Methods of Instruction
AR-1406-0072
- TH-55 Instructor Pilot Methods of Instruction
AR-1406-0075
- UH-1 Combat Skills Day/Night/Night Vision Goggles Methods of Instruction
AR-1406-0080
- UH-1 Contact Instructor Pilot Methods of Instruction
AR-1406-0077
- UH-1 Contact, Tactics, Night/Night Vision Goggle (N/NVG) Instructor Pilot Methods of Instruction
AR-1406-0113
- UH-60 Method of Instruction
AR-1406-0115
- Instructional**
- Instructional Systems Development
AR-1406-0036
- Instructor**
- AH-1 Instructor Pilot Methods of Instruction (MOI) (Contact, Tactics, and Gunnery) (Night Vision Goggle)
AR-1406-0114
- AH-1S Instructor Pilot
AR-1406-0117
- AH-64 Instructor Pilot
AR-1606-0168
- AH-64 Instructor Pilot Methods of Instruction
AR-1406-0121
- Antiterrorism Instructor Qualification
AR-1406-0095
- Basic Instructor Training Course
AR-1406-0054
- CH-47D Flight Engineer Instructor
AR-1606-0189
- CH-47D Instructor Pilot
AR-1406-0120
- Instructor
AR-1406-0111
- Instructor Training
AR-0419-0042
AR-1406-0037
- Instructor Training Course
AR-1406-0056
- Instructor Training Workshop
AR-1406-0094
- Night/Night Vision Goggle Instructor Pilot
AR-1606-0172
- OH-58 Aeroscout Instructor Pilot Methods of Instruction
AR-1606-0165
- OH-58 Instructor Pilot
AR-1606-0047
- OH-58 Transition/Gunnery Instructor Pilot (IP) Qualification
AR-1606-0047
- OH-58A/C Instructor Pilot
AR-1406-0122
- OH-58D Field Artillery Instructor Pilot Fire Support
AR-2201-0377
- OH-58D Instructor Pilot
AR-1406-0119
- OH-58D Instructor Pilot Methods of Instruction (MOI)
AR-1406-0118
- Rehabilitation Training Instructor
AR-0799-0023
- Survival, Evasion, Resistance, and Escape (SERE) Instructor Qualification
AR-0803-0015
- T-42 Instructor Pilot (IP) Methods of Instruction
AR-1406-0072
- TH-55 Instructor Pilot Methods of Instruction
AR-1406-0075
- U-21 Instructor Pilot
AR-1406-0116
- UH-1 Contact Instructor Pilot
AR-1606-0053
- UH-1 Contact Instructor Pilot (Interim)
AR-1406-0076
- UH-1 Contact Instructor Pilot Methods of Instruction
AR-1406-0077
- UH-1 Instructor Pilot
AR-1606-0053
- UH-60 Instructor Pilot
AR-1406-0079
- Instrument**
- Fire Control Instrument Repair
AR-1721-0002
- Optical Instrument Repairman (USMC)
AR-1721-0002
- Rotary Wing Instrument Flight Examiner
AR-1606-0190
- Instrumentation**
- Foreign Instrumentation Signals External Analysis
AR-1715-0729
- Prime Power Production Instrumentation Specialist
AR-1720-0010
- Prime Power Production Specialist (Instrumentation Specialty)
AR-1720-0005
- Integrated**
- Defense Integrated Disposal Management System
AR-1405-0116
- Integrated Facilities System
AR-1402-0057
- Integrated Item Manager's
AR-1408-0191
- Integrated Logistics Support Advanced
AR-0326-0055
- Intelligence**
- Advanced Course in Artificial Intelligence Theory and Expert Systems Building
AR-1402-0097
- Aerial Intelligence Specialist
AR-1606-0208
- Aerial Intelligence Specialist Basic Noncommissioned Officer (NCO)
AR-1606-0203
- Air Defense Artillery (ADA) Operations and Intelligence Assistant
AR-1601-0068
- Combat Intelligence
AR-1606-0175
- Counter-Signals Intelligence Specialist
AR-1402-0127
- Counter-Signals Intelligence Specialist Basic Noncommissioned Officer (NCO)
AR-1402-0126
- Electronic Warfare (EW) Signal Intelligence (SIGINT) Noncommunications Interceptor
AR-1715-0710

Electronic Warfare (EW) Signals Intelligence (SIGINT) Non-Morse Interceptor Basic Noncommissioned Officer (NCO)
AR-1717-0078

Electronic Warfare (EW) Signals Intelligence (SIGINT) Voice Interceptor Basic Noncommissioned Officer (NCO)
AR-1715-0728

Electronic Warfare (EW)/Signal Intelligence (SIGINT) Emitter Identifier/Locator
AR-1409-0011

Electronic Warfare (EW)/Signal Intelligence (SIGINT) Morse Interceptor
AR-1409-0012

Electronic Warfare (EW)/Signal Intelligence (SIGINT) Noncommunications Interceptor Analyst Basic Noncommissioned Officer (NCO)
AR-1715-0726

Electronic Warfare (EW)/Signals Intelligence (SIGINT) Analyst Basic Noncommissioned Officer (NCO)
AR-1715-0734

Electronic Warfare (EW)/Signals Intelligence (SIGINT) Emitter Locator/Identifier Basic Noncommissioned Officer (NCO)
AR-2201-0316

Electronic Warfare (EW)/Signals Intelligence (SIGINT) Morse Interceptor Basic Noncommissioned Officer (NCO)
AR-1717-0079

Imagery Intelligence Technician Warrant Officer Technical/Tactical Certification
AR-1606-0200

Intelligence Analyst
AR-1728-0083

Intelligence Analyst Basic Noncommissioned Officer (NCO)
AR-1606-0192

Intelligence in Combatting Terrorism
AR-1511-0024

Intelligence in Terrorism Counteraction
AR-1511-0024

Intelligence/Electronic Warfare (EW) Equipment Technician Warrant Officer Technical/Tactical Certification Phase 2
AR-1408-0194

Intelligence/Electronic Warfare Equipment Technician Warrant Officer Technical/Tactical Certification (Reserve Component) Phases 2 and 3
AR-1408-0207

Military Intelligence Advanced (98 CMF) Noncommissioned Officer (NCO)
AR-2201-0037

Military Intelligence Advanced Noncommissioned Officer (NCO)
AR-1406-0125

Military Intelligence Common Core Phase 1
AR-1402-0128

Military Intelligence Officer Advanced (Imagery Exploitation)
AR-1606-0194

Military Intelligence Officer Advanced (Signals Intelligence/Electronic Warfare (SIGINT/EW))
AR-1406-0128

Military Intelligence Officer Advanced Common Core
AR-1606-0196

Military Intelligence Officer Advanced Counterintelligence
AR-1728-0085

Military Intelligence Officer Basic
AR-1408-0177

Military Intelligence Officer Transition
AR-1728-0087

Military Intelligence Pre-Command
AR-1606-0197

Military Intelligence Senior Warrant Officer
AR-1606-0202

Military Intelligence Warrant Officer Reserve Component
AR-1606-0195

Military Intelligence Warrant Officer Technical/Tactical Certification Common Core, Phase 1
AR-1402-0128

Senior Noncommissioned Officer (NCO) Operations and Intelligence
AR-1511-0013

Signal Intelligence/Electronic Warfare (SIGINT/EW) Officer (AST-35G)
AR-1715-0911

Signals Intelligence Analyst Basic Noncommissioned Officer (NCO)
AR-1715-0734

Special Forces Assistant Operations and Intelligence Sergeant
AR-1606-0210

Special Forces Assistant Operations and Intelligence Sergeant Reserve Component Phase 2
AR-1606-0211

Special Forces Assistant Operations and Intelligence Sergeant Reserve Component Phase 4
AR-1606-0212

Special Forces Operations and Intelligence
AR-1606-0176

Special Forces Operations and Intelligence Resident/Nonresident Phase 2
AR-1511-0020

Special Forces Operations and Intelligence Resident/Nonresident Phase 4
AR-1511-0019

Tactical All-Source Intelligence Officer Force Alignment Plan 3
AR-1728-0087

Warrant Officer Technical/Tactical Certification Phase 2 350D Imagery Intelligence Technician
AR-1606-0200

Intelligent

Intelligent Technologies for Operations Research
AR-1402-0137

Intercept

Electronic Warfare (EW)/Intercept Aerial Sensor Repairer
AR-1715-0713

Electronic Warfare (EW)/Intercept Aerial Sensor Repairer Basic Noncommissioned Officer (NCO) Phase 2
AR-1715-0890

Electronic Warfare (EW)/Intercept Aerial Sensor Repairer Phase 2
AR-1715-0869

Electronic Warfare (EW)/Intercept Aviation Equipment Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0714

Electronic Warfare (EW)/Intercept Aviation Systems Repairer
AR-1715-0715

Electronic Warfare (EW)/Intercept Equipment Repair Technician Warrant Officer Technical Certification
AR-1408-0132

Electronic Warfare (EW)/Intercept Strategic Receiving Subsystem Repairer
AR-1715-0827

Electronic Warfare (EW)/Intercept Strategic Receiving Subsystem Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0717

Electronic Warfare (EW)/Intercept Strategic Signal Processing and Storage Subsystem Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0719

Electronic Warfare (EW)/Intercept Strategic Signal Processing/Storage Subsystem Repairer
AR-1715-0718

Electronic Warfare (EW)/Intercept Strategic Systems Analyst and Command and Control Subsystems Repairer
AR-1715-0720

Electronic Warfare (EW)/Intercept Strategic Systems Analyst and Command and Control Subsystems Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0721

Electronic Warfare (EW)/Intercept System Maintenance Analyst Advanced Noncommissioned Officer (NCO)
AR-1406-0127

Electronic Warfare (EW)/Intercept Tactical Systems Repairer
AR-1715-0722

Electronic Warfare (EW)/Intercept Tactical Systems Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0723

Electronic Warfare/Intercept Aviation Systems Basic Noncommissioned Officer (NCO)
AR-1715-0714

Morse Intercept Technician Warrant Officer Technical Certification
AR-1408-0133

Morse Intercept Technician Warrant Officer Technical/Tactical Certification Phase 2
AR-1408-0133

Non-Morse Intercept Technician Warrant Officer Technical Certification
AR-1408-0134

Voice Intercept Technician Warrant Officer Technical Certification
AR-1408-0138

Voice Intercept Technician Warrant Officer Technical/Tactical Certification (WOTTC) - RC Phases 2 and 3
AR-1408-0206

Voice Intercept Technician Warrant Officer Technical/Tactical Certification Phase 2
AR-1408-0138

Interceptor

Electronic Warfare (EW) Signal Intelligence (SIGINT) Noncommunications Interceptor
AR-1715-0710

Electronic Warfare (EW) Signals Intelligence (SIGINT) Non-Morse Interceptor Basic Noncommissioned Officer (NCO)
AR-1717-0078

Electronic Warfare (EW) Signals Intelligence (SIGINT) Voice Interceptor Basic Noncommissioned Officer (NCO)
AR-1715-0728

Electronic Warfare (EW)/Signal Intelligence (SIGINT) Noncommunications Interceptor Analyst Basic Noncommissioned Officer (NCO)
AR-1715-0726

Non-Morse Interceptor/Analyst Basic Noncommissioned Officer (NCO)
AR-1717-0078

- Noncommunications Interceptor/Analyst
AR-1715-0710
- Noncommunications Interceptor/Analyst
Basic Noncommissioned Officer (NCO)
AR-1715-0726
- Voice Interceptor Basic Noncommissioned
Officer (NCO)
AR-1715-0728
- Interface**
Ground Mobile Forces Interface Subsystem
AR-1715-0695
- Interior**
Interior Electrician
AR-1714-0035
- Intermediate**
Intermediate Industrial Hygiene Topics
AR-0707-0021
- Intern**
PERSINSD Automatic Data Processing
(ADP) Intern Program
AR-1402-0008
- Internal**
Basic Internal Audit
AR-1401-0030
- Foreign Internal Defense/Internal Defense
and Development
AR-1511-0025
- Intermediate Internal Audit
AR-1401-0031
- Internal Review
AR-1401-0022
- Internals**
Telemetry Internals Analysis
AR-1715-0731
- International**
Advanced International Morse Code (IMC)
AR-1407-0005
- Interpersonal**
Interpersonal Communications
AR-1512-0010
- Interrogation**
Department of Defense Strategic Debriefing
(Department of Defense Strategic Debriefing
and Interrogation Training)
AR-1728-0056
- Interrogation Technical Warrant Officer
Technical/Tactical Certification
AR-1606-0199
- Warrant Officer Technical/Tactical Certifica-
tion Phase 2 MOS 351E Interrogation Techni-
cian
AR-1606-0199
- Interrogator**
Interrogator
AR-1728-0084
- Interrogator Basic Noncommissioned Officer
(NCO)
AR-1606-0198
- Inventory**
Automated Inventory Management
AR-1405-0123
- Commodity Command Standard System
Physical Inventory Management
AR-1405-0218
- Commodity Command Standard System
Physical Inventory Management by Corre-
spondence
AR-1405-0230
- Defense Inventory Management
AR-1405-0215
- Standard Depot System Depot Physical
Inventory Management
AR-1405-0219
- Investigation**
Advanced Fraud Investigation
AR-1728-0063
- Apprentice Criminal Investigation Division
(CID) Special Agent
AR-1728-0104
- Apprentice Criminal Investigation Division
(CID) Special Agent Reserve Component
Phase 2 Resident
AR-1728-0105
- Apprentice Criminal Investigation Division
(CID) Special Agent Reserve Component
Phase 4 Resident
AR-1728-0106
- Criminal Investigation
AR-1728-0010
- Criminal Investigation Division (CID)
Senior Warrant Officer
AR-1728-0092
- Criminal Investigation Division (CID) War-
rant Officer Technical and Tactical Certifica-
tion
AR-1728-0097
- Criminal Investigation Division (CID) War-
rant Officer Technical and Tactical Certifica-
tion Reserve Phase 2
AR-1728-0098
- Criminal Investigation Supervision
AR-1728-0027
- Military Police Investigation
AR-1728-0028
- Traffic Accident Investigation
AR-1728-0078
- Investigative**
Advanced Investigative Management
AR-1728-0027
- Investigator**
Military Police Investigator
AR-1728-0028
- AR-1728-0101
- ISD**
Design (ISD Phase 2); Develop (ISD Phase
3); Control/Evaluation (ISD Phase 5); Vali-
dation Procedures for Course Materials and
Tests
AR-1406-0058
- Job and Task Analysis (ISD Phase 1)
AR-1406-0057
- Item**
Integrated Item Manager's
AR-1408-0191
- ITV**
Improved TOE Vehicle (ITV) Trainer
AR-2201-0277
- ITV/IFV/CFV Systems Mechanic Recovery
Specialist
AR-1703-0047
- JCL**
Disk Operating Systems (DOS) Concepts
and Job Control Language (JCL)
AR-1402-0065
- Job**
Job and Task Analysis (ISD Phase 1)
AR-1406-0057
- Joint**
Joint Special Operations Forces Trauma
AR-0709-0051
- Joint Tactical Communications System Man-
agement
AR-1402-0158
- JStars**
Joint Surveillance Target Attack Radar Sys-
tem (JStars) Ground Station Module (GSM)
Operator/Supervisor
AR-1715-0870
- Judge**
Judge Advocate General Officer Basic Phase
1
AR-1728-0114
- Jumpmaster**
Jumpmaster
AR-2201-0273
- AR-2201-0449
- Military Freefall Jumpmaster
AR-2201-0344
- Special Forces Military Freefall Jumpmaster
AR-2201-0344
- Junior**
Junior Officer Maintenance
AR-1703-0057
- Knowledge**
Knowledge Engineering and Basic Expert
Systems Building
AR-1402-0099
- Laboratory**
Advanced Dental Laboratory Specialist
AR-0701-0019
- Clinical Laboratory Officer
AR-0703-0027
- Dental Laboratory Specialist
AR-0701-0014
- Dental Laboratory Specialist (Basic)
AR-0701-0014
- Dental Laboratory Specialist (Senior)
AR-0701-0015
- Medical Laboratory Specialist (MLT)
Advanced
AR-0702-0019
- Medical Laboratory Specialist (MLT) Initial
Entry Training
AR-0702-0018
- Medical Laboratory Specialist Advanced
AR-0702-0007
- Medical Laboratory Specialist Basic
AR-0702-0013
- Optical Laboratory Specialist
AR-0709-0015
- Petroleum Laboratory Specialist
AR-1601-0030
- Petroleum Laboratory Specialist Basic Non-
commissioned Officer (NCO)
AR-1601-0071
- Secondary Reference Laboratory Specialist
AR-1303-0004
- Lance**
Lance (NCO) Reclassification (Transition)
AR-2201-0382
- Lance Crewmember
AR-2201-0375
- Lance Crewmember Advanced Noncommis-
sioned Officer (NCO)
AR-2201-0360
- Lance Crewmember Basic Noncommis-
sioned Officer (NCO)
AR-2201-0364
- Lance Missile Crewmember
AR-2201-0375
- Lance Missile Mechanic
AR-1717-0067
- Lance Missile System Technician Warrant
Officer Technical Certification
AR-1715-0843
- Lance Operations/Fire Direction Assistant
AR-1601-0056

Lance Repairer	AR-1715-0562	Multiple Launch Rocket System (MLRS) Crewman	AR-2201-0282	Basic Noncommissioned Officer (NCO) Reserve Component Phase I Common Leader Training	AR-2201-0337
Lance Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0747	Multiple Launch Rocket System (MLRS) Crewmember Advanced Noncommissioned Officer (NCO)	AR-2201-0367	Infantry Mortar Leader	AR-2201-0451
Lance System Repairer	AR-1715-0562	Multiple Launch Rocket System (MLRS) Family of Munitions	AR-2201-0408	Light Leader	AR-2201-0275
Light Missile Field Artillery (Lance)	AR-2201-0371	Multiple Launch Rocket System (MLRS) Mechanic	AR-2201-0280	Sapper Leader	AR-2201-0405
Multiple Launch Rocket System (MLRS)/ Lance Advanced Noncommissioned Officer (NCO)	AR-2201-0290	Multiple Launch Rocket System (MLRS) Repairer	AR-1715-0564	Leadership	
Multiple Launch Rocket System (MLRS)/ Lance Fire Direction Supervisor Advanced Noncommissioned Officer (NCO)	AR-2201-0289	Multiple Launch Rocket System (MLRS) Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0749	Leadership and Management Development Trainers Course	AR-1406-0034
Multiple Launch Rocket System (MLRS)/ Lance Operations Fire Direction Specialist Basic Noncommissioned Officer (NCO)	AR-2201-0365	Multiple Launch Rocket System (MLRS)/ Lance Advanced Noncommissioned Officer (NCO)	AR-2201-0290	Leadership Development	AR-2201-0387
Multiple Launch Rocket System (MLRS)/ Lance Operations Fire Specialist	AR-1715-0847	Multiple Launch Rocket System (MLRS)/ Lance Fire Direction Supervisor Advanced Noncommissioned Officer (NCO)	AR-2201-0359	Primary Leadership Development	AR-2201-0253
Multiple Launch Rocket Systems (MLRS)/ Lance Operations	AR-1601-0056	Multiple Launch Rocket System (MLRS)/ Lance Fire Direction Supervisor Advanced Noncommissioned Officer (NCO)	AR-2201-0289	Primary Leadership Development Reserve Component	AR-2201-0294
Land		Multiple Launch Rocket System (MLRS)/ Lance Operations Fire Direction Specialist Basic Noncommissioned Officer (NCO)	AR-2201-0365	Technical Services Officer (TSO) Leadership Workshop	AR-1406-0038
Land Combat Advanced Noncommissioned Officer (NCO)	AR-1715-0902	Multiple Launch Rocket System (MLRS)/ Lance Operations Fire Specialist	AR-1715-0847	Legal	
Land Combat Missile Systems Repair Technician Senior Warrant Officer	AR-1715-0900	Launcher		Legal Clerk	AR-1403-0002
Land Combat Missile Systems Technician Warrant Officer Technical and Tactical Certification	AR-1715-0899	Hawk Launcher and Mechanical Systems Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0740	Legal Specialist	AR-1403-0002
Land Combat Missile Systems Technician Warrant Officer Technical and Tactical Certification Reserve (Phases 2 and 4)	AR-1715-0894	Laundry		Legal Specialist (Phase 2)	AR-1728-0089
Land Combat Support System Test Specialist	AR-1715-0652	Laundry and Bath Specialist, Reserve	AR-1716-0009	Legal Specialist Noncommissioned Officer (NCO) Advanced	AR-1407-0007
Land Combat Support System Test Specialist Basic Noncommissioned Officer (NCO)	AR-1715-0652	Laundry and Bath/Fabric Repair Specialist Basic Noncommissioned Officer (NCO)	AR-1716-0010	Legal Specialist/ Court Reporter Basic Noncommissioned Officer (NCO)	AR-1407-0009
Language		Laundry and Bath/Fabric Repair Specialists Advanced Noncommissioned Officer (NCO)	AR-1716-0012	Legal Specialist/Court Reporter Advanced Noncommissioned Officer (NCO)	AR-1728-0088
Ada Programming Language	AR-1402-0147	Laundry and Shower/Fabric Repair Specialist	AR-1716-0010	Lie	
C Programming Language	AR-1402-0148	Law		Lie Detection	AR-1728-0008
DAS3 Executive Language and Editor	AR-1402-0068	Law Enforcement	AR-1728-0023	Lie Detector Operation	AR-1728-0008
Disk Operating Systems (DOS) Concepts and Job Control Language (JCL)	AR-1402-0065	Leader		Life	
Laser		Advanced Noncommissioned Officer (NCO) Common Leader (Common Core)	AR-1404-0035	Aviation Life Support Equipment Technician	AR-1408-0212
Airborne Laser Tracker (ALT) Maintenance Repairer	AR-1704-0157	Advanced Noncommissioned Officer (NCO) Common Leader, Reserve, Phase 1	AR-2201-0295	Aviation Life Support Equipment Technician (Aiset), Reserve Component	AR-1408-0211
Latent		Basic Noncommissioned Officer (NCO) Common Leader Reserve Training	AR-2201-0337	Lift	
Latent Print Examiner	AR-1728-0117	Basic Noncommissioned Officer (NCO) Common Leader Training	AR-1406-0090	CH-54 Heavy Lift Helicopter Repairer Reserve Component	AR-1704-0148
Launch				Lifting	
Multiple Launch Rocket System (MLRS) Basic Noncommissioned Officer (NCO)	AR-2201-0366			Lifting and Loading Equipment Operator	AR-1710-0092
Multiple Launch Rocket System (MLRS) Cadre	AR-1715-0935			Light	
				Light Air Defense Artillery (ADA) Crew Member	AR-2201-0252
				Light Leader	AR-2201-0275
				Light Systems Maintenance Technician Warrant Officer Advanced	AR-1405-0153
				Light Weapons Infantryman	AR-2201-0310
				Light Weapons Infantryman Phase 1, Phase 2, Prior Service	AR-2201-0310

- Light Wheel Vehicle Mechanic
AR-1703-0028
- Light Wheel Vehicle Mechanic (Recovery Specialist)
AR-1703-0052
- Light Wheel Vehicle Mechanic Basic Non-commissioned Officer (NCO)
AR-1703-0029
- Light Wheel Vehicle Mechanic Individual Ready Reserve Refresher
AR-1710-0121
AR-1710-0122
- Light Wheel Vehicle Mechanic Noncommissioned Officer (NCO) Advanced
AR-1710-0132
- Unit Maintenance Technician (Light) Warrant Officer Technical/Tactical Certification
AR-1710-0116
- Unit Maintenance Technician (Light) Warrant Officer Technical/Tactical Certification Reserve Component Phases 2 and 4
AR-1717-0097
- Lighter**
- Lighter Air-Cushion Vehicle Maintenance Technician
AR-1704-0144
- Lighter Air-Cushion Vehicle Navigator
AR-2205-0002
- Lighter Air-Cushion Vehicle Operator
AR-1704-0133
- Line**
- Line of Sight-Forward-Heavy Crewmember
AR-1715-0942
- Loading**
- Lifting and Loading Equipment Operator
AR-1710-0092
- Loads**
- Fabrication of Aerial Delivery Loads
AR-1733-0009
- Locator**
- Emitter Locator/Identifier Basic Noncommissioned Officer (NCO)
AR-1715-0914
- Logistic**
- Combined Logistic Officer Advanced, Phase 2
AR-1408-0220
- Defense Basic Logistic Support Analysis
AR-0326-0056
- Logistical**
- Automated Logistical Specialist
AR-1405-0238
- Automated Logistical Specialist Advanced Noncommissioned Officer (NCO)
AR-1405-0240
- Automated Logistical Specialist Basic Noncommissioned Officer (NCO)
AR-1405-0239
- Logistics**
- Advanced Logistics Management
AR-1405-0191
- Associate Logistics Executive Development
AR-0326-0003
- Associate Logistics Executive Development by Correspondence
AR-1405-0214
- Associate Logistics Executive Development Reserve Component
AR-1405-0213
- Associate Logistics Executive Development Reserve Component by Correspondence
AR-1405-0214
- Automated Logistics Management Advanced Noncommissioned Officer
AR-1405-0240
- Automated Logistics Management Specialist Basic Noncommissioned Officer (NCO)
AR-1405-0239
- Automated Logistics Specialist
AR-1405-0238
- Aviation Logistics Officer Advanced
AR-1704-0208
- Basic Statistics for Logistics Management
AR-1115-0010
- Combined Logistics Officer Advanced Quartermaster Branch Specific Track
AR-1405-0237
- Combined Logistics Officer Advanced, Phases 1 and 3
AR-1408-0215
- Directorate of Logistics
AR-1408-0075
- Installation Logistics Management
AR-1408-0116
- Integrated Logistics Support Advanced
AR-0326-0055
- Intermediate Acquisition Logistics
AR-0326-0055
- Logistics Assistance Program Operations
AR-1405-0222
- Logistics Assistance Program Supply Support
AR-1405-0223
- Logistics Assistance Program Workshop I
AR-1405-0222
- Logistics Executive Development
AR-1405-0211
- Logistics Executive Development by Correspondence
AR-1405-0212
- Logistics Management
AR-1405-0197
- Logistics Management Development
AR-0326-0047
- Logistics Management Development by Correspondence
AR-0326-0048
- Logistics Officer (S4)
AR-1405-0234
- Logistics Precommand
AR-1408-0114
- Logistics Support Analysis
AR-0326-0056
- Medical Logistics Management
AR-1408-0067
AR-1408-0204
- Medical Logistics Management Reserve
AR-1408-0154
- Medical Logistics Noncommissioned Officer (NCO)
AR-1405-0203
- Noncommissioned Officer (NCO) Logistics Program
AR-1405-0167
- Personnel and Logistics Staff Noncommissioned Officer (NCO)
AR-1406-0123
- Senior Level Logistics
AR-1405-0205
- Senior Officer Logistics Management
AR-1408-0150
- Senior Officer Preventive Logistics
AR-1408-0150
- M1**
- Basic Noncommissioned Officer (NCO) M60A1/M60A3 19K M1 Abrams
AR-2201-0325
- M1 Abrams Fuel and Electrical Systems Repairer
AR-1714-0029
- M1 Abrams Tank Fire Control Systems Repairer
AR-1710-0101
- M1 Abrams Tank Recovery Specialist
AR-1710-0135
- M1 Abrams Tank System Mechanic Basic Noncommissioned Officer (NCO)
AR-1703-0040
- M1 Abrams Tank System Mechanic Noncommissioned Officer (NCO) Advanced
AR-1710-0131
- M1 Abrams Tank Systems Mechanic
AR-1704-0142
- M1 Abrams Tank Turret Mechanic
AR-1703-0050
- M1 Abrams Tank Turret Repair
AR-1710-0104
- M1 Abrams Tank Vehicle Repairer
AR-1710-0113
- M1 Unit Automotive Maintenance
AR-1710-0148
- M1 Unit Turret Mechanic
AR-1710-0144
- M1/M1A1 Abrams Armor Crewman
AR-2201-0330
- M1/M1A1 Abrams Master Gunner
AR-2201-0328
- M1/M1A1 Abrams Master Gunner Transition
AR-2201-0329
- M1/M1A1 Master Gunner Transition
AR-2201-0329
- M109**
- M109-M110 Organizational Maintenance Training
AR-1710-0080
- M109-M110, M548 Unit Maintenance Training
AR-1710-0149
- System Mechanic Self-Propelled (SP) Artillery M109/M110 Series Vehicles
AR-1710-0066
AR-1710-0067
- M110**
- M109-M110 Organizational Maintenance Training
AR-1710-0080
- M109-M110, M548 Unit Maintenance Training
AR-1710-0149
- System Mechanic Self-Propelled (SP) Artillery M109/M110 Series Vehicles
AR-1710-0066
AR-1710-0067
- M113**
- M113 Cavalry Scout
AR-2201-0332
- M113 Series Unit Maintenance Training
AR-1710-0146
- System Mechanic for M113 Series Vehicles
AR-1710-0069
- System Mechanic M113 Series Vehicle
AR-1710-0070
- M113A1**
- M60-M113A1 Series Unit Maintenance Training
AR-1704-0170
- M1A1**
- M1/M1A1 Abrams Armor Crewman
AR-2201-0330

M1/M1A1 Abrams Master Gunner AR-2201-0328	Machine Computer/Machine Operator AR-1402-0117	Light Systems Maintenance Technician Warrant Officer Advanced AR-1405-0153
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AR-1703-0030

Metals

Apprentice Aircraft Metals Technology Specialist
AR-1717-0162

Metalworker

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AR-1723-0011

Metalworker Individual Ready Reserve (44B20)
AR-1703-0049

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AR-1304-0011

Field Artillery Meteorological Crewmember Basic Noncommissioned Officer (NCO)
AR-1304-0010

Field Artillery Meteorological Crewmember Noncommissioned Officer (NCO) Advanced
AR-1304-0008

Field Artillery Meteorological Crewmember Reserve
AR-1304-0012

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AR-1715-0835

Meteorological Equipment Maintenance Meteorological Data System
AR-1715-0835

Meteorological Equipment Maintenance Meteorological Data Systems
AR-1715-0835

Meteorological Technician Warrant Officer Technical Certification
AR-1715-0629

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AR-1715-0121

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AR-1715-0121

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AR-1406-0115

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AR-1406-0121

OH-58D Instructor Pilot Methods of Instruction (MOI)
AR-1406-0118

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Microprocessors
AR-1715-0620

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AR-1715-0932

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AR-1715-0672

Microwave Systems Operator-Maintainer Basic Noncommissioned Officer (NCO)
AR-1715-0932

Satellite/Microwave Systems Chief Advanced Noncommissioned Officer (NCO)
AR-1715-0922

Strategic Microwave Systems Repairer
AR-1715-0672

Strategic Microwave Systems Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0678

Tactical Satellite/Microwave Repairer
AR-1715-0671

Tactical Satellite/Microwave Repairer Transition
AR-1715-0877

Tactical Satellite/Microwave Supervisor Basic Noncommissioned Officer (NCO)
AR-1715-0682

Tactical Satellite/Microwave Systems Operator
AR-1715-0782

Tactical Satellite/Microwave Systems Operator Basic Noncommissioned Officer (NCO)
AR-1715-0699

Tactical Satellite/Microwave Systems Operator Primary Technical
AR-1715-0699

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Basic Military Police
AR-1728-0023

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AR-1728-0120

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AR-1728-0107

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AR-2201-0303

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AR-2201-0343

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AR-2201-0254

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AR-1401-0034

Military Ammunition Inspector
AR-2201-0056

Military Enlistment Processing Station (MIPS) Guidance Counselor National Guard (ARNG)
AR-2201-0352

Military Freefall Jumpmaster
AR-2201-0344

Military Freefall Parachutist
AR-2201-0345

Military Intelligence Advanced Noncommissioned Officer (NCO)
AR-1406-0125

Military Intelligence Common Core Phase 1
AR-1402-0128

Military Intelligence Officer Advanced (Imagery Exploitation)
AR-1606-0194

Military Intelligence Officer Advanced (Signals Intelligence/Electronic Warfare (SIG-INT/EW))
AR-1406-0128

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AR-1606-0196

Military Intelligence Officer Advanced Counterintelligence
AR-1728-0085

Military Intelligence Officer Basic
AR-1408-0177

Military Intelligence Officer Transition
AR-1728-0087

Military Intelligence Pre-Command
AR-1606-0197

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AR-1606-0202

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AR-1606-0195

Military Intelligence Warrant Officer Technical/Tactical Certification Common Core, Phase 1
AR-1402-0128

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AR-1728-0100

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AR-1728-0102

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AR-1728-0028

Military Police Investigator
AR-1728-0101

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AR-1728-0035

Military Police Officer Basic
AR-1728-0026

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AR-1728-0090

Military Police Officer Orientation
AR-1728-0035

Military Police Pre-Command
AR-1728-0070

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AR-1728-0023

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AR-1402-0138

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AR-1402-0164

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AR-1402-0140

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AR-1406-0132

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AR-0799-0020

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AR-0709-0045

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AR-0801-0024

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AR-2201-0344

Special Forces Military Freefall Parachutist
AR-2201-0345

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AR-2201-0212

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AH-64 Aircraft Armament/Missile Systems Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0192

Aircraft Armament Missile Systems Repairer
AR-1704-0159

Aircraft Armament/Missile Systems Repairer
AR-1714-0031

Aircraft Armament/Missile Systems Repairer Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0167

Aircraft Armament/Missile Systems Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0193

Aircraft Armament/Missile Systems Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0147

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AR-1715-0122

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AR-1715-0530

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AR-1402-0026

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AR-1715-0949

Hawk Missile Air Defense Artillery Officer Reclassification, Reserve
AR-2201-0419

Hawk Missile Crew Member
AR-1715-0511

Hawk Missile Support Repair Technician (DS/GS)
AR-1715-0647

Hawk Missile System Crewmember
AR-1715-0939

Hawk Missile System Crewmember (Transition)
AR-1715-0954

Hawk Missile System Mechanic
AR-1715-0946

Hawk Missile System Mechanic (Transition) AR-1715-0943 AR-1715-0944	Pershing II Missile Crewmember AR-1715-0486	Mobile Subscriber Equipment (MSE) System Planner/System Control Center Operator AR-1715-0875
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Hawk Missile System Technician Warrant Officer Technical/Tactical Certification (PIP 2) AR-1715-0957	Pershing II Missile Crewmember Basic Noncommissioned Officer (NCO) AR-1715-0636	Mobile Subscriber Equipment (MSE) Transmission System Operator AR-1715-0884
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Mobile Subscriber Equipment (MSE) Network Switching System Operator AR-1715-0886
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Bradley Fighting Vehicle System Mechanic Basic Noncommissioned Officer (NCO)	AR-1710-0110	Chemical Operations Specialist Advanced Noncommissioned Officer (NCO)	AR-0801-0029	Electronic Warfare (EW)/Intercept Strategic Receiving Subsystem Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0717
Bradley Fighting Vehicle System Mechanic Noncommissioned Officer (NCO)	AR-1710-0129	Chemical Operations Specialist Basic Noncommissioned Officer (NCO) Reclassification	AR-0801-0010	Electronic Warfare (EW)/Intercept Strategic Signal Processing and Storage Subsystem Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0719
Bridge Crewmember Basic Noncommissioned Officer (NCO)	AR-1601-0084	Combat Engineer Basic Noncommissioned Officer (NCO)	AR-1601-0081	Electronic Warfare (EW)/Intercept Strategic Systems Analyst and Command and Control Subsystems Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0721
Calibration Specialist Basic Noncommissioned Officer (NCO) (35H30)	AR-1715-0856	Communication Electronics Radio Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0685	Electronic Warfare (EW)/Intercept System Maintenance Analyst Advanced Noncommissioned Officer (NCO)	AR-1406-0127
Cannon Crewmember Advanced Noncommissioned Officer (NCO)	AR-1601-0078	Communications Computer System Repairer Basic Noncommissioned Officer (NCO)	AR-1402-0159	Electronic Warfare (EW)/Intercept Tactical Systems Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0723
Cannon Crewmember Basic Noncommissioned Officer (NCO)	AR-2201-0362	Communications Systems/Circuit Controller Basic Basic Noncommissioned Officer (NCO)	AR-1715-0924	Electronic Warfare (EW)/Signal Intelligence (SIGINT) Noncommunications Interceptor Analyst Basic Noncommissioned Officer (NCO)	AR-1715-0726
Cannon Fire Direction Specialist Basic Noncommissioned Officer (NCO)	AR-1402-0160	Communications-Electronics Maintenance Advanced Noncommissioned Officer (NCO)	AR-1715-0851	Electronic Warfare (EW)/Signals Intelligence (SIGINT) Analyst Basic Noncommissioned Officer (NCO)	AR-1715-0734
Cargo Specialist Advanced Noncommissioned Officer (NCO)	AR-0419-0051	Communications-Electronics Maintenance Chief Advanced Noncommissioned Officer (NCO)	AR-1402-0155		
Cargo Specialist Basic Noncommissioned Officer (NCO)	AR-1710-0150	Computer/Machine Operator Basic Noncommissioned Officer (NCO)	AR-1402-0116		
CH-47 Helicopter Repairer Basic Noncommissioned Officer (NCO)	AR-1704-0151	Construction Equipment Repairer Noncommissioned Officer (NCO) Advanced	AR-1710-0128		
CH-47 Helicopter Repairer Supervisor Advanced Noncommissioned Officer (NCO)	AR-1704-0165				
CH-47 Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO)	AR-1704-0151				

Electronic Warfare (EW)/Signals Intelligence (SIGINT) Emitter Locator/Identifier Basic Noncommissioned Officer (NCO)	AR-2201-0316	Finance/Accounting Advanced Noncommissioned Officer (NCO)	AR-1401-0050	Intelligence Analyst Basic Noncommissioned Officer (NCO)	AR-1606-0192
Electronic Warfare (EW)/Signals Intelligence (SIGINT) Morse Interceptor Basic Noncommissioned Officer (NCO)	AR-1717-0079	Finance/Accounting Basic Noncommissioned Officer (NCO)	AR-1401-0035	Interrogator Basic Noncommissioned Officer (NCO)	AR-1606-0198
Electronic Warfare/Intercept Aviation Systems Basic Noncommissioned Officer (NCO)	AR-1715-0714	Fire Support Sergeant Advanced Noncommissioned Officer (NCO)	AR-2201-0363	Lance (NCO) Reclassification (Transition)	AR-2201-0382
Electronics Equipment Maintenance Advanced Noncommissioned Officer (NCO)	AR-1406-0107	Fire Support Specialist Advanced Noncommissioned Officer (NCO)	AR-2201-0363	Lance Crewmember Advanced Noncommissioned Officer (NCO)	AR-2201-0360
Emitter Locator/Identifier Basic Noncommissioned Officer (NCO)	AR-1715-0914	Fixed Communication Security (COMSEC) Supervisor Basic Noncommissioned Officer (NCO)	AR-1715-0771	Lance Crewmember Basic Noncommissioned Officer (NCO)	AR-2201-0364
Engineer Tracked Vehicle Crewman Basic Noncommissioned Officer (NCO)	AR-1703-0062	Flight Operations Advanced Noncommissioned Officer (NCO)	AR-1704-0174	Lance Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0747
Executive Administrative Assistant/Administrative Specialist Basic Noncommissioned Officer (NCO)	AR-1408-0164	Flight Operations Basic Noncommissioned Officer (NCO)	AR-1704-0173	Land Combat Advanced Noncommissioned Officer (NCO)	AR-1715-0902
Explosive Ordnance Disposal Specialist Basic Noncommissioned Officer (NCO)	AR-1728-0076	Food Service Specialist Advanced Noncommissioned Officer (NCO)	AR-1729-0040	Land Combat Support System Test Specialist Basic Noncommissioned Officer (NCO)	AR-1715-0652
Field Artillery Cannon (FA-CMF) Noncommissioned Officer (NCO) Advanced	AR-2201-0213	Food Service Specialist Basic Noncommissioned Officer (NCO)	AR-1729-0039	Laundry and Bath/Fabric Repair Specialist Basic Noncommissioned Officer (NCO)	AR-1716-0010
Field Artillery Cannon Basic Noncommissioned Officer (NCO)	AR-2201-0362	Forward Area Alerting Radar (FAAR) Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0642	Laundry and Bath/Fabric Repair Specialists Advanced Noncommissioned Officer (NCO)	AR-1716-0012
Field Artillery Cannon Fire Direction Specialist Basic Noncommissioned Officer (NCO)	AR-2201-0257	Graphics Documentation Specialist Basic Noncommissioned Officer (NCO)	AR-0202-0001	Legal Specialist Noncommissioned Officer (NCO) Advanced	AR-1407-0007
Field Artillery Cannon Fire Support Specialist Basic Noncommissioned Officer (NCO)	AR-2201-0256	Graphics Documentation Specialist Basic Noncommissioned Officer (NCO) 25Q30	AR-0202-0001	Legal Specialist/ Court Reporter Basic Noncommissioned Officer (NCO)	AR-1407-0009
Field Artillery Meteorological Crewmember Basic Noncommissioned Officer (NCO)	AR-1304-0010	Graves Registration Specialist Advanced Noncommissioned Officer (NCO)	AR-0709-0037	Legal Specialist/Court Reporter Advanced Noncommissioned Officer (NCO)	AR-1728-0088
Field Artillery Meteorological Crewmember Noncommissioned Officer (NCO) Advanced	AR-1304-0008	Ground Surveillance System Operator Basic Noncommissioned Officer (NCO)	AR-1606-0207	Light Wheel Vehicle Mechanic Basic Noncommissioned Officer (NCO)	AR-1703-0029
Field Artillery Radar Basic Noncommissioned Officer (NCO)	AR-1715-0635	Hawk Advanced Noncommissioned Officer (NCO)	AR-1715-0901	Light Wheel Vehicle Mechanic Noncommissioned Officer (NCO) Advanced	AR-1710-0132
Field Artillery Radar Crewmember Noncommissioned Officer (NCO) Advanced	AR-2201-0292	Hawk Continuous Wave (CW) Radar Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0743	M1 Abrams Tank System Mechanic Basic Noncommissioned Officer (NCO)	AR-1703-0040
Field Artillery Surveyor Advanced Noncommissioned Officer (NCO)	AR-2201-0293	Hawk Field Maintenance Equipment/Pulse Acquisition Radar Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0742	M1 Abrams Tank System Mechanic Noncommissioned Officer (NCO) Advanced	AR-1710-0131
Field Artillery Surveyor Basic Noncommissioned Officer (NCO)	AR-2201-0376	Hawk Fire Control Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0741	Machinist Basic Noncommissioned Officer (NCO)	AR-1723-0009
Field Artillery Surveyor Noncommissioned Officer (NCO) Advanced	AR-2201-0293	Hawk Firing Section Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0907	Machinist Noncommissioned Officer (NCO) Advanced	AR-1723-0011
Field Artillery Tactical Fire (TACFIRE) Noncommissioned Officer (NCO) Advanced	AR-2201-0369	Hawk Launcher and Mechanical Systems Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0740	Machinist Noncommissioned Officer (NCO) Advanced	AR-1723-0010
Field Communication Security (COMSEC) Maintenance Supervisor Basic Noncommissioned Officer (NCO)	AR-1715-0772	Hawk Pulse Radar Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0742	Maneuver Combat Arms Infantry Noncommissioned Officer (NCO) Advanced	AR-2201-0181
Field Support Advanced Noncommissioned Officer (NCO)	AR-2201-0363	Imagery Analyst Basic Noncommissioned Officer (NCO)	AR-1606-0191	Materiel Control and Accounting Specialist Advanced Noncommissioned Officer (NCO)	AR-1405-0178
Finance Specialist Basic Noncommissioned Officer (NCO)	AR-1401-0035	In-Service Recruiter/Retention Noncommissioned Officer (NCO)	AR-1406-0165	Materiel Control and Accounting Specialist Basic Noncommissioned Officer (NCO)	AR-1405-0161
		Information Systems Operator Basic Noncommissioned Officer (NCO)	AR-1402-0116	Materiel Storage and Handling Specialist Advanced Noncommissioned Officer (NCO)	AR-1405-0163
				Materiel Storage and Handling Specialist Basic Noncommissioned Officer (NCO)	AR-1405-0164
				Mechanical Maintenance Noncommissioned Officer (NCO) Advanced, MOS 41J	AR-1406-0081

- Mechanical Maintenance Noncommissioned Officer (NCO) Advanced, MOS 441
AR-1723-0010
- Mechanical Maintenance Noncommissioned Officer (NCO) Advanced, MOS 457
AR-1704-0141
- Mechanical Maintenance Noncommissioned Officer (NCO) Advanced, MOS 62B
AR-1710-0128
- Mechanical Maintenance Noncommissioned Officer (NCO) Advanced, MOS 63B, D, E, N, T
AR-1710-0129
AR-1710-0130
AR-1710-0131
AR-1710-0132
AR-2201-0320
- Mechanical Maintenance Noncommissioned Officer (NCO) Advanced, MOS 63H
AR-1710-0127
- Medical Logistics Noncommissioned Officer (NCO)
AR-1405-0203
- Medical Noncommissioned Officer (NCO)
AR-0709-0033
- Metalworker Basic Noncommissioned Officer (NCO)
AR-1723-0011
- Microwave Systems Operator Maintenance Basic Noncommissioned Officer (NCO)
AR-1715-0932
- Microwave Systems Operator-Maintainer Basic Noncommissioned Officer (NCO)
AR-1715-0932
- Military Intelligence Advanced (98 CMF) Noncommissioned Officer (NCO)
AR-2201-0037
- Military Intelligence Advanced Noncommissioned Officer (NCO)
AR-1406-0125
- Military Police Advanced Noncommissioned Officer (NCO)
AR-1728-0100
- Military Police Basic Noncommissioned Officer (NCO)
AR-1728-0102
- Mobile Subscriber Equipment (MSE) Network Switching System Operator Basic Noncommissioned Officer (NCO)
AR-1404-0044
- Morse Interceptor Basic Noncommissioned Officer (NCO)
AR-1717-0079
- Mortuary Affairs Specialist Advanced Noncommissioned Officer (NCO)
AR-0709-0037
- Mortuary Affairs Specialist Basic Noncommissioned (NCO) Officer
AR-0709-0046
- Mortuary Affairs Specialist Basic Noncommissioned Officer (NCO)
AR-0709-0046
- Motor Transport Noncommissioned Officer (NCO) Advanced
AR-0419-0024
- Motor Transport Operator Advanced Noncommissioned Officer (NCO)
AR-0419-0049
- Motor Transport Operator Basic Noncommissioned Officer (NCO)
AR-0419-0048
- Multichannel Transmission Systems Operator/Maintainer Basic Noncommissioned Officer (NCO)
AR-1715-0606
- Multiple Launch Rocket System (MLRS) Basic Noncommissioned Officer (NCO)
AR-2201-0366
- Multiple Launch Rocket System (MLRS) Crewmember Advanced Noncommissioned Officer (NCO)
AR-2201-0367
- Multiple Launch Rocket System (MLRS) Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0749
- Multiple Launch Rocket System (MLRS)/Lance Advanced Noncommissioned Officer (NCO)
AR-2201-0290
- Multiple Launch Rocket System (MLRS)/Lance Fire Direction Supervisor Advanced Noncommissioned Officer (NCO)
AR-2201-0359
- Multiple Launch Rocket System (MLRS)/Lance Fire Direction Supervisor Advanced Noncommissioned Officer (NCO)
AR-2201-0289
- Multiple Launch Rocket System (MLRS)/Lance Operations Fire Direction Specialist Basic Noncommissioned Officer (NCO)
AR-2201-0365
- National Guard (ARNG) Retention Noncommissioned Officer (NCO)
AR-2201-0388
- NBC Defense Officer and Noncommissioned Officer (NCO)
AR-0801-0023
- Non-Morse Interceptor/Analyst Basic Noncommissioned Officer (NCO)
AR-1717-0078
- Noncommissioned Officer (NCO) in Charge
AR-1406-0135
- Noncommissioned Officer (NCO) Logistics Program
AR-1405-0167
- Noncommunications Interceptor/Analyst Basic Noncommissioned Officer (NCO)
AR-1715-0726
- Nuclear Weapons Specialist Advanced Noncommissioned Officer (NCO)
AR-2201-0398
- Nuclear Weapons Specialist Basic Noncommissioned Officer (NCO)
AR-1715-0908
- Nuclear, Biological, Chemical (NBC) Defense Officer Noncommissioned Officer (NCO)
AR-1720-0007
- Observation Airplane Repairer Supervisor Advanced Noncommissioned Officer (NCO)
AR-1704-0200
- Office Machine Repairer Noncommissioned Officer (NCO) Advanced
AR-1406-0081
- OH-58 Observation/Scout Helicopter Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0152
- OH-58D Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0202
- OH-58D Scout Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0202
- OV-1 Observation Airplane Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0149
- OV-1 Observation Airplane Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0149
- Parachute Rigger Advanced Noncommissioned Officer (NCO)
AR-1733-0004
- Parachute Rigger Advanced noncommissioned Officer (NCO)
AR-1733-0004
- Parachute Rigger Basic Noncommissioned Officer (NCO)
AR-1733-0007
- Patriot Operator and System Mechanic Basic Noncommissioned Officer (NCO)
AR-1715-0813
- Pershing Electrical-Mechanical Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0649
- Pershing Electronic Material Specialist Basic Noncommissioned Officer (NCO)
AR-1715-0624
- Pershing Electronics Materiel Specialist Advanced Noncommissioned Officer (NCO)
AR-2201-0291
- Pershing Electronics Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0751
- Pershing II Electronics Materiel Specialist Advanced Noncommissioned Officer (NCO)
AR-2201-0291
- Pershing II Missile Crewmember Advanced Noncommissioned Officer (NCO)
AR-2201-0288
- Pershing II Missile Crewmember Basic Noncommissioned Officer (NCO)
AR-1715-0636
- Pershing Missile Crewmember Basic Noncommissioned Officer (NCO)
AR-2201-0370
- Personnel Actions Specialist Basic Noncommissioned Officer (NCO)
AR-1406-0150
- Personnel Administration Specialist Basic Noncommissioned Officer (NCO)
AR-1406-0100
- Personnel and Logistics Staff Noncommissioned Officer (NCO)
AR-1406-0123
- Personnel Information Systems Management Specialist Basic Noncommissioned Officer (NCO)
AR-1405-0196
- Personnel Management Specialist Basic Noncommissioned Officer (NCO)
AR-1406-0148
- Personnel Records Specialist Basic Noncommissioned Officer (NCO)
AR-1406-0149
- Personnel Sergeant Advanced Noncommissioned Officer (NCO)
AR-1406-0102
- Personnel Service Center Basic Noncommissioned Officer (NCO)
AR-1403-0014
- Personnel Staff Noncommissioned Officer (NCO) Military Personnel Technician
AR-1406-0132
- Petroleum and Water Specialist Advanced Noncommissioned Officer (NCO)
AR-1717-0092
- Petroleum Laboratory Specialist Basic Noncommissioned Officer (NCO)
AR-1601-0071
AR-1601-0095
- Petroleum Supply Specialist Basic Noncommissioned Officer (NCO)
AR-1601-0072

- Petroleum Supply Specialist Basic Noncommissioned Petroleum Supply Specialist Basic Noncommissioned Officer (NCO) AR-1601-0072
- Power Generation Equipment Repairer Basic Noncommissioned Officer (NCO) Common Core AR-1406-0141
- Primary Noncommissioned Officer (NCO) for Combat Arms AR-2201-0274
- Programmer/Analyst Basic Noncommissioned Officer (NCO) AR-1402-0120
- Psychological Operations Advanced Noncommissioned Officer, (NCO) Reserve Component, Phase 2 AR-1512-0026
- Psychological Operations Basic Noncommissioned Officer (NCO) AR-1512-0020
- Radio Repairer Basic Noncommissioned Officer (NCO) AR-1715-0685
- Radiology Noncommissioned Officer (NCO) Management AR-0705-0004
- Record Telecommunications Center Operator Basic Noncommissioned Officer (NCO) AR-1404-0047
- Recruiting and Retention Advanced Noncommissioned Officer (NCO) AR-1406-0158
- Recruiting and Retention Basic Noncommissioned Officer (NCO) AR-1406-0156
- Reserve Component Army Band Advanced Noncommissioned Officer (NCO), Phase 2 AR-1205-0008
- Reserve Component Army Band Basic Noncommissioned Officer (NCO), Phase 2 AR-1205-0013
- Reserve Retention Noncommissioned Officer (NCO) AR-1406-0164
- Reserve Retention Noncommissioned Officer (NCO) Advanced AR-2201-0356
- Retention Noncommissioned Officer (NCO) AR-1406-0020
- AR-1406-0159
- Satellite Communications (SATCOM) Systems Repairer Basic Noncommissioned Officer (NCO) AR-1715-0918
- Satellite/Microwave Systems Chief Advanced Noncommissioned Officer (NCO) AR-1715-0922
- Self-Propelled Field Artillery System Basic Noncommissioned Officer (NCO) AR-1710-0112
- Self-Propelled Field Artillery System Mechanic Noncommissioned Officer (NCO) Advanced AR-2201-0320
- Senior Course for Reserve Component Noncommissioned Officer (NCO) AR-2201-0296
- Senior Noncommissioned Officer (NCO) Operations and Intelligence AR-1511-0013
- Senior Utilities Quartermaster/Chemical Equipment Repairer Basic Noncommissioned Officer (NCO) Technical Portion AR-1601-0080
- Senior Utilities, Quartermaster/Chemical Equipment Repairer Basic Noncommissioned Officer (NCO) Common Core AR-1406-0142
- Service Noncommissioned Officer (NCO) Advanced (Parachute Rigger) AR-1733-0004
- Signal Operations Advanced Noncommissioned Officer (NCO) AR-1406-0109
- Signal Support Systems Specialist Basic Noncommissioned Officer (NCO) AR-1715-0917
- Signal Support Systems Supervisor Advanced Noncommissioned Officer (NCO) AR-1715-0920
- Signals Intelligence Analyst Basic Noncommissioned Officer (NCO) AR-1715-0734
- Single Channel Radio Operator Basic Noncommissioned Officer (NCO) AR-1404-0037
- Special Forces Communications Sergeant Advanced Noncommissioned Officer (NCO) AR-1404-0041
- Special Forces Communications Sergeant Advanced Noncommissioned Officer (NCO) Reserve Component Phase 2 AR-1404-0042
- Special Forces Engineer Sergeant Advanced Noncommissioned Officer (NCO) AR-2201-0404
- Special Forces Engineer Sergeant Advanced Noncommissioned Officer (NCO) Reserve Component Phase 2 AR-2201-0403
- Special Forces Medical Sergeant Advanced Noncommissioned Officer (NCO) AR-0702-0014
- Special Forces Medical Sergeant Advanced Noncommissioned Officer (NCO) Reserve Component Phase 2 AR-0702-0015
- Special Forces Weapons Sergeant Advanced Noncommissioned Officer (NCO) AR-2201-0401
- Special Forces Weapons Sergeant Advanced Noncommissioned Officer (NCO) Reserve Component Phase 2 AR-2201-0402
- Special Purpose Equipment Repairer Noncommissioned Officer (NCO) Advanced AR-1710-0133
- Still Documentation Specialist Basic Noncommissioned Officer (NCO) AR-1709-0011
- Still Documentation Specialist Basic Noncommissioned Officer (NCO) (25S30) AR-0202-0002
- Storage Supplyman Noncommissioned Officer (NCO) Advanced AR-1405-0110
- Strategic Microwave Systems Repairer Basic Noncommissioned Officer (NCO) AR-1715-0678
- Strategic Systems Repairer Basic Noncommissioned Officer (NCO) AR-1715-0888
- Subsistence Supply Specialist Basic Noncommissioned Officer (NCO) AR-1405-0174
- Supervisor Special Electronic Devices Repairer Basic Noncommissioned Officer (NCO) AR-1715-0854
- Supply Noncommissioned Officer (NCO) AR-1405-0204
- Switching Systems Operator Basic Noncommissioned Officer (NCO) AR-1714-0028
- Tactical Communications Chief Basic Noncommissioned Officer (NCO) AR-1715-0915
- Tactical Fire (TACFIRE) Operation Specialist Advanced Noncommissioned Officer (NCO) Advanced AR-2201-0369
- Tactical Fire (TACFIRE) Operations Specialist Basic Noncommissioned Officer (NCO) AR-1715-0638
- Tactical Satellite/Microwave Supervisor Basic Noncommissioned Officer (NCO) AR-1715-0682
- Tactical Satellite/Microwave Systems Operator Basic Noncommissioned Officer (NCO) AR-1715-0699
- Tactical Systems Repairer Basic Noncommissioned Officer (NCO) AR-1715-0723
- Tactical Telecommunications Center Operator Basic Noncommissioned Officer (NCO) Automatic Data AR-1715-0881
- Tactical Transport Helicopter Repairer Basic Noncommissioned Officer (NCO) Reserve Component AR-1704-0195
- Tank M60A1/A3 Tank System Mechanic Noncommissioned Officer (NCO) Advanced AR-1710-0130
- Tank Turret Repairer Basic Noncommissioned Officer (NCO) AR-1710-0109
- Target Acquisition/Surveillance Radar Repairer Basic Noncommissioned Officer (NCO) AR-1408-0170
- Technical Engineering Supervisor Basic Noncommissioned Officer (NCO) AR-1601-0090
- Telecommunications Center Operator Basic Noncommissioned Officer (NCO) AR-1715-0881
- Telecommunications Computer Operator-Maintainer Basic Noncommissioned Officer (NCO) AR-1402-0159
- Telecommunications Operations Chief Advanced Noncommissioned Officer (NCO) AR-1402-0156
- Telecommunications Terminal Device Repairer Basic Noncommissioned Officer (NCO) AR-1715-0689
- Telephone Central Office Repair Basic Noncommissioned Officer (NCO) AR-1406-0093
- Teletypewriter Equipment Repairer Basic Noncommissioned Officer (NCO) AR-1715-0689
- Test, Measurement, and Diagnostic Equipment (TMDE) Advanced Noncommissioned Officer (NCO) AR-1406-0108
- TMDE Maintenance Support Specialist Advanced Noncommissioned Officer (NCO) AR-1402-0133
- Track Vehicle Repairer Basic Noncommissioned Officer (NCO) AR-1710-0111
- Track Vehicle Repairer Noncommissioned Officer (NCO) Advanced AR-1710-0127

- Traffic Management Coordinator Advanced Noncommissioned Officer (NCO) AR-0419-0050
- Traffic Management Coordinator Advanced Noncommissioned Officer (NCO) Reserve AR-0419-0060
- Traffic Management Coordinator Basic Noncommissioned (NCO) AR-0419-0058
- Traffic Management Coordinator Basic Noncommissioned Officer (NCO) AR-0419-0041
- Traffic Management Coordinator Basic Noncommissioned Officer (NCO) Reserve AR-0419-0064
- Traffic Management Coordinator Noncommissioned Officer (NCO) Advanced AR-0419-0017
- Training Noncommissioned Officer (NCO) AR-1406-0136
- Transition Noncommissioned Officer (NCO) AR-1406-0165
- Transportable Automatic Switching Systems Operator/Maintainer Basic Noncommissioned Officer (NCO) AR-1715-0855
- Turbine Engine Driven Generator Repairer Basic Noncommissioned Officer (NCO) Common Core AR-1406-0140
- UH-1 Helicopter Repairer Basic Noncommissioned Officer (NCO) Reserve Component AR-1704-0189
- UH-1 Utility Helicopter Repairer Basic Noncommissioned Officer (NCO) AR-1717-0089
- UH-1 Utility Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO) AR-1717-0089
- UH-60 Helicopter Repairer Supervisor Advanced Noncommissioned Officer (NCO) AR-1704-0164
- UH-60 Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO) Reserve Component AR-1704-0195
- Unit Supply Specialist Advanced Noncommissioned Officer (NCO) AR-1405-0162
- Unit Supply Specialist Basic Noncommissioned Officer (NCO) AR-1405-0233
- Utilities Equipment Repairer Basic Noncommissioned Officer (NCO) AR-1406-0143
- Utility Helicopter Repairer Basic Noncommissioned Officer (NCO) Reserve Component AR-1704-0189
- Utility/Cargo and Observation Airplane Supervisor Advanced Noncommissioned Officer (NCO) AR-1704-0160
- Utility/Tactical Transport Helicopter Repairer Supervisor Advanced Noncommissioned Officer (NCO) AR-1704-0164
- Visual Information Advanced Noncommissioned Officer (NCO) AR-1719-0005
- Visual Information/Audio Documentation Systems Specialist Basic Noncommissioned Officer (NCO) AR-1719-0004
- Watercraft Engineer Advanced Noncommissioned Officer (NCO) AR-1712-0019
- Watercraft Engineer Basic Noncommissioned Officer (NCO) AR-1712-0018
- Negotiations**
- Hostage Negotiations AR-1728-0067
- Network**
- Joint Tactical Automated Switching Network Supervisor AR-1715-0605
- Mobile Subscriber Equipment (MSE) Network Switching System Operator Basic Noncommissioned Officer (NCO) AR-1404-0044
- Network Management/Information Systems Staff Officer AR-1402-0154
- Satellite Systems/Network Coordinator AR-1715-0925
- Night**
- Night Vision Goggle (NVG) AN/PVS5 Methods of Instruction AR-1606-0139
- Night/Night Vision Goggle Instructor Pilot AR-1606-0172
- UH-1 Combat Skills Day/Night/Night Vision Goggles Methods of Instruction AR-1406-0080
- Nike**
- Nike Hercules Electronic Maintenance AR-1715-0084
- Nike Hercules Officer AR-2201-0095
- Non-Morse**
- Electronic Warfare (EW) Signals Intelligence (SIGINT) Non-Morse Interceptor Basic Noncommissioned Officer (NCO) AR-1717-0078
- Non-Morse Intercept Technician Warrant Officer Technical Certification AR-1408-0134
- Non-Morse Interceptor/Analyst Basic Noncommissioned Officer (NCO) AR-1717-0078
- Nonappropriated**
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- Noncommunications**
- Electronic Warfare (EW) Signal Intelligence (SIGINT) Noncommunications Interceptor AR-1715-0710
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- Noncommunications Interceptor/Analyst AR-1715-0710
- Noncommunications Interceptor/Analyst Basic Noncommissioned Officer (NCO) AR-1715-0726
- Nonresident**
- Army Medical Department Staff Development (Reserve Component) (Nonresident/Resident) AR-0799-0017
- Civil Affairs Officer Advanced Nonresident/Resident Reserve Component AR-1511-0014
- Civil Affairs Officer Advanced Nonresident/Resident, Reserve Component Phase 2 AR-1511-0014
- Dental Specialist Reserve Component (Nonresident/Resident) Phase 2 AR-0701-0012
- Finance Officer Advanced Nonresident/Resident Reserve Component Phases 1 and 3 AR-1401-0046
- Patient Administration Reserve Component (Nonresident/Resident) AR-0709-0043
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- Sergeants Major Nonresident AR-1408-0149
- Special Forces Operations and Intelligence Resident/Nonresident Phase 2 AR-1511-0020
- Special Forces Operations and Intelligence Resident/Nonresident Phase 4 AR-1511-0019
- Nose**
- Ear, Nose, and Throat Specialist AR-0709-0002
- Eye, Ear, Nose, and Throat Specialist AR-0709-0002
- Nuclear**
- Marine Corps Nuclear, Biological, Chemical (NBC) Defense AR-1720-0001
- Nuclear and Chemical Target Analysis AR-0802-0025
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- Nuclear Weapons Maintenance AR-2201-0381
- Nuclear Weapons Maintenance Specialist AR-1715-0204
- Nuclear Weapons Specialist AR-1715-0204
- Nuclear Weapons Specialist Advanced Noncommissioned Officer (NCO) AR-2201-0398
- Nuclear Weapons Specialist Basic Noncommissioned Officer (NCO) AR-1715-0908
- Nuclear Weapons Technician AR-0802-0019
- Nuclear Weapons Technician Senior Warrant Officer AR-2201-0391
- Nuclear Weapons Technician Warrant Officer Technical and Tactical Certification AR-1715-0750
- Nuclear Weapons Technician Warrant Officer Technical/Tactical Certification AR-1715-0750
- Nuclear, Biological, Chemical (NBC) Defense AR-1720-0007
- Nuclear, Biological, Chemical (NBC) Defense Officer Noncommissioned Officer (NCO) AR-1720-0007

Nuclear, Biological, Chemical (NBC) Reconnaissance	AR-0801-0026	OH-58 Observation/Scout Helicopter Repairer Basic Noncommissioned Officer (NCO)	AR-1704-0152	Infantry Officer Advanced	AR-2201-0435
Ordnance Officer Advance Nuclear Materiel Management	AR-1720-0008	OH-6-RC Observation/Scout Helicopter Repairer Reserve Component	AR-1704-0155	Infantry Officer Basic	AR-2201-0428
Ordnance Officer Advanced Nuclear Weap- ons Materiel Management	AR-1720-0008	OV-1 Observation Airplane Repairer Basic Noncommissioned Officer (NCO)	AR-1704-0149	Junior Officer Maintenance	AR-1703-0057
Nurse		OV-1 Observation Airplane Repairer Super- visor Basic Noncommissioned Officer (NCO)	AR-1704-0149	Shorad Officer Reclassification Reserve	AR-2201-0416
Army Medical Department (AMEDD) Clini- cal Head Nurse	AR-0703-0021	OV-1 Observation Airplane Technical Inspector	AR-1704-0161	OH-58	
Army Medical Department Officer Clinical Head Nurse	AR-0703-0021	Utility/Cargo and Observation Airplane Supervisor Advanced Noncommissioned Officer (NCO)	AR-1704-0160	Initial Entry Rotary-Wing Aviator (OH-58)	AR-1606-0184
Nurse Practitioner Adult Medical-Surgical Health Care	AR-0703-0020	Observer		OH-58 Aeroscout Instructor Pilot Methods of Instruction	AR-1606-0165
Nurse Recruiting	AR-1406-0161	Aeroscout Observer Basic Noncommis- sioned Officer (NCO)	AR-1606-0187	OH-58 Helicopter Repairer	AR-1704-0066
Operating Room Nursing for Army Nurse Corps Officer (Reserve Component)	AR-0703-0019	Marine Artillery Scout Observer	AR-2201-0145	OH-58 Instructor Pilot	AR-1606-0047
Practical Nurse	AR-0703-0015	Marine Radar Observer	AR-1715-0919	OH-58 Observation/Scout Helicopter Repairer Basic Noncommissioned Officer (NCO)	AR-1704-0152
Psychiatric Mental Health Nurse	AR-0708-0003	OH-58 A/C Field Artillery Aerial Observer	AR-1606-0188	OH-58 Transition/Gunnery Instructor Pilot (IP) Qualification	AR-1606-0047
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Nursing		Obstetrical		OH-58A/C Instructor Pilot	AR-1406-0122
Critical Care Nursing	AR-0703-0016	Obstetrical and Gynecological Nursing	AR-0703-0023	OH-58A/C Maintenance Manager/Test Pilot	AR-1717-0085
Obstetrical and Gynecological Nursing	AR-0703-0023	Occupational		OH-58D	
Operating Room Nursing	AR-0703-0010	Occupational Therapy Specialist	AR-0704-0004	AH-64 Attack/OH-58D Scout Helicopter Repairer Supervisor Advanced Noncommis- sioned Officer (NCO)	AR-1704-0163
Operating Room Nursing for Army Nurse Corps Officer (Reserve Component)	AR-0703-0019	Occupational Therapy Specialty	AR-0704-0011	AHIP Avionic Mechanic (OH-58D)	AR-1715-0784
Pediatric Nursing	AR-0703-0018	Office		OH-58D Advanced Scout Helicopter Repairer	AR-1704-0194
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Observation		Administrative Senior Warrant Officer Reserve Component	AR-1406-0154	OH-58D Field Artillery Aerial Observer	AR-1606-0169
AH-1 Attack/OH-58A/C Observation/Scout Helicopter Repairer Supervisor Advanced Noncommissioned Officer (NCO)	AR-1704-0188	Air Defense Artillery Officer Advanced Sho- rad Follow-On	AR-2201-0420	OH-58D Field Artillery Instructor Pilot Fire Support	AR-2201-0377
Observation Airplane Repairer	AR-1704-0038	Armor Officer Advanced Reserve Compo- nent	AR-2201-0321	OH-58D Helicopter Repairer	AR-1704-0194
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				OH-58D Powerplant Repairer	AR-1704-0203
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- OH-58D Scout Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0202
- OH-58D Special Electronic
AR-1715-0783
- OH-6-RC**
OH-6-RC Observation/Scout Helicopter Repairer Reserve Component
AR-1704-0155
- OL-230/MS-C-66(V)**
Data Processing Group OL-230/MS-C-66(V)
AR-1715-0695
- Operating**
Operating Room Nursing
AR-0703-0010
- Operating Room Nursing for Army Nurse Corps Officer (Reserve Component)
AR-0703-0019
- Operating Room Specialist
AR-0709-0035
- Operating Systems
AR-1402-0045
AR-1402-0153
- UNIX Operating System Principles
AR-1402-0152
- Operations**
Advanced Special Operations Techniques
AR-1408-0163
- Civil Military Operations
AR-2201-0343
- Communications Electronic Warfare Equipment Operations
AR-1715-0822
- Electronic Warfare (EW) Operations Phase I
AR-1715-0822
- Flight Operations Advanced Noncommissioned Officer (NCO)
AR-1704-0174
- Flight Operations Basic Noncommissioned Officer (NCO)
AR-1704-0173
- Flight Operations Coordinator
AR-1704-0178
- Intelligent Technologies for Operations Research
AR-1402-0137
- Introduction to Operations Research Systems Analysis by Correspondence
AR-1115-0014
- Joint Operations Staff Planning
AR-1512-0023
- Joint Psychological Operations Staff Planning
AR-1512-0023
- Joint Special Operations Forces Trauma
AR-0709-0051
- Operations Research and Systems Analysis (ORSA) Familiarization by Correspondence
AR-1115-0014
- Operations Research Systems Analysis (ORSA) Military Skills Development
AR-1402-0138
- Operations Research Systems Analysis Military Applications (ORSA MAC), Phases 1 and 2
AR-1402-0164
- Operations Research Systems Analysis Military Applications 1 (ORSA MAC 1)
AR-1402-0139
- Operations Research Systems Analysis Military Applications 2 (ORSA MAC 2)
AR-1402-0140
- Psychological Operations Basic Noncommissioned Officer (NCO)
AR-1512-0020
- Psychological Operations Officer
AR-1512-0018
- Psychological Operations Specialist
AR-1512-0021
- Reserve Component Psychological Operations Officer
AR-1512-0017
- Reserve Component Psychological Operations Specialist
AR-1512-0022
- Special Forces Assistant Operations and Intelligence Sergeant
AR-1606-0210
- Special Forces Assistant Operations and Intelligence Sergeant Reserve Component Phase 2
AR-1606-0211
- Special Forces Assistant Operations and Intelligence Sergeant Reserve Component Phase 4
AR-1606-0212
- Special Forces Operations and Intelligence
AR-1606-0176
- Special Forces Operations and Intelligence Resident/Nonresident Phase 2
AR-1511-0020
- Special Forces Operations and Intelligence Resident/Nonresident Phase 4
AR-1511-0019
- Special Operations Communications Sergeant Reserve Component Phase 4
AR-1715-0826
- Special Operations Qualification Reserve Component Phase 2
AR-0803-0008
- Special Operations Qualifications Reserve Component Phase 6
AR-0803-0009
- Special Operations Reconnaissance
AR-1511-0018
- Special Operations Staff Officer
AR-1512-0019
- Special Operations Target Interdiction
AR-2201-0349
- Special Operations Technician Senior Warrant Officer
AR-1408-0162
- Special Operations Technician Warrant Officer Technical Certification
AR-1406-0096
- Special Operations Training
AR-0803-0013
- Special Operations Weapons Sergeant Reserve Component Phase 4
AR-2201-0348
- Support Operations, Phase 2
AR-2201-0414
- Tactical Wire Operations Specialist
AR-1715-0434
- Operator**
Early Warning System Operator
AR-1715-0953
- Hawk Missile System with Computer Upgrade (Phase 2 A) (Operator)
AR-1715-0952
- Hawk Missile System with Computer Upgrade (Phase 3 A) Operator
AR-1715-0958
- Patriot Operator and System Mechanic
AR-1715-0582
- Redeye and Stinger Gunner/Operator
AR-1715-0576
- Stinger Gunner Operator (USMC)
AR-1715-0576
- Tactical Communications Systems Operator/Mechanic
AR-1715-0091
- Opportunity**
Equal Opportunity Representative
AR-0505-0001
- Optical**
Optical Instrument Repairman (USMC)
AR-1721-0002
- Optical Laboratory Specialist
AR-0709-0015
- Ordnance**
Electro-Optical Ordnance Repairer USMC
AR-1714-0030
- Explosive Ordnance Disposal Parachute Rigging
AR-1733-0011
- Explosive Ordnance Disposal Specialist Basic Noncommissioned Officer (NCO)
AR-1728-0076
- Explosive Ordnance Disposal, Phase I
AR-0802-0002
- Ordnance Maintenance Management Officer Advanced
AR-1405-0151
- Ordnance Maintenance Management Officer Basic
AR-1405-0074
- Ordnance Missile Material Management (Phase 1 and 3)
AR-1408-0196
- Ordnance Missile Materiel Management Officer-Reserve
AR-1405-0156
- Ordnance Munitions Material Management (Phase 1 and 3)
AR-1408-0197
- Ordnance Munitions Materiel Management Officer Basic
AR-1405-0158
AR-1405-0159
- Ordnance Munitions Materiel Management Officer Reserve
AR-1405-0157
- Ordnance Officer Advance Nuclear Materiel Management
AR-1720-0008
- Ordnance Officer Advanced
AR-1408-0108
- Ordnance Officer Advanced Field Maintenance Management
AR-1703-0034
- Ordnance Officer Advanced Maintenance Additional Specialty
AR-1405-0154
- Ordnance Officer Advanced Maintenance Management
AR-1405-0150
AR-1717-0107
- Ordnance Officer Advanced Missile Materiel Management Field Operations
AR-1405-0147
- Ordnance Officer Advanced Missile/Munitions Materiel Management
AR-1408-0153
- Ordnance Officer Advanced Munitions Materiel Management Field Operations
AR-1405-0146
- Ordnance Officer Advanced Nuclear Weapons Materiel Management
AR-1720-0008
- Ordnance Officer Advanced Wholesale Maintenance Management
AR-1703-0035

Ordnance Officer Advanced Wholesale Missile/Munitions Materiel Management AR-1405-0148	Parachute Rigger Advanced Individual Training AR-1733-0008	Air Defense Artillery Officer Basic Patriot Track AR-2201-0426
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Ordnance Pre-Command AR-2201-0318	Parachute Rigger Advanced noncommissioned Officer (NCO) AR-1733-0004	Intermediate Maintenance Patriot Missile System Phases 1 and 2 AR-1715-0746
Organization	Parachute Rigger Basic Noncommissioned Officer (NCO) AR-1733-0007	Patriot Air Defense Officer AR-2201-0261
Organization Development Facilitators AR-1405-0206	Service Noncommissioned Officer (NCO) Advanced (Parachute Rigger) AR-1733-0004	Patriot Communications Crewmember AR-1715-0654
Unit/Organization Supply Procedures AR-1403-0011		Patriot Missile Crew Member AR-1715-0578
Organizational	Parachutist	AR-1715-0579
Bradley Fighting Vehicle System Organizational Maintenance AR-2201-0326	Military Freefall Parachutist AR-2201-0345	AR-1715-0580
M109-M110 Organizational Maintenance Training AR-1710-0080	Special Forces Military Freefall Parachutist AR-2201-0345	Patriot Missile Crew Member Transition AR-1715-0579
Organizational Communications-Electronics (C-E) Operator/Mechanics AR-1715-0791	Parish	AR-1715-0581
Organizational Development Consultants AR-0326-0046	Staff and Parish Development Consultant AR-1406-0085	Patriot Missile Crewmember AR-1715-0941
Organizational Maintenance Shop (OMS)/Unit Training Equipment Site (UTES) AR-1405-0209	Parts	Patriot Missile System Technician Warrant Officer Technical Certification (WOTC) Phases 1 and 2 AR-1715-0797
Organizational Maintenance Shop (OMS)/Unit Training Equipment Site (UTES) Tool and Parts Attendant AR-1405-0210	Equipment Records and Parts Specialist Advanced Individual Training AR-1405-0175	Patriot Operator and System Mechanic AR-1715-0582
Organizational Maintenance Supervisors AR-1704-0169	Organizational Maintenance Shop (OMS)/Unit Training Equipment Site (UTES) Tool and Parts Attendant AR-1405-0210	AR-1715-0798
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USAF Organizational/Intermediate Maintenance of the AN/MS-64 Satellite Communications (SATCOM) Terminal AR-1715-0673	Repair Parts Technician Quartermaster Warrant Officer Technical/Tactical Certification Reserve Component AR-1405-0190	Patriot System Repairer Phases 1 and 2 AR-1715-0746
Orientation	Repair Parts Technician Senior Warrant Officer AR-1408-0158	Patriot System Technician Warrant Officer Basic AR-1715-0797
Orientation to Systems Approach to Training AR-1406-0169	Repair Parts Technician Senior Warrant Officer Reserve Components AR-1405-0181	Patriot System Technician Warrant Officer Technical/Tactical Certification AR-1715-0797
Orthopedic	Passenger	Patriot Weapon System Qualification Air Defense Artillery Officer Basic AR-2201-0426
Orthopedic Specialist AR-0704-0009	Passenger Travel Specialist AR-0418-0004	Phase 1 and Phase 2 Patriot System Intermediate Maintenance Technician AR-1715-0753
Orthotic	AR-0418-0006	
Orthotic Specialist AR-0704-0010	Pastoral	Pay
OV-1	Pastoral Coordinator AR-1402-0088	Civilian Pay Management AR-1401-0045
OV-1 Airplane Repair AR-1704-0038	Pathfinder	Payroll
OV-1 Observation Airplane Repairer Basic Noncommissioned Officer (NCO) AR-1704-0149	Pathfinder AR-2201-0038	Civilian Payroll Technician AR-1401-0044
OV-1 Observation Airplane Repairer Supervisor Basic Noncommissioned Officer (NCO) AR-1704-0149	AR-2201-0444	Pediatric
OV-1 Observation Airplane Technical Inspector AR-1704-0161	Patient	Pediatric Nursing AR-0703-0018
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OV/RV-1D (Mohawk) System Qualification AR-1715-0912	Patient Administration Reserve Component (Nonresident/Resident) AR-0709-0043	Perioperative Nursing AR-0703-0010
OV/RV-1D (Mohawk) Systems Qualification AR-1715-0498	Patient Administration Specialist AR-1403-0010	AR-0703-0028
Parachute	Patient Administration Specialist Reserve Phase 2 AR-0709-0048	Pershing
Explosive Ordnance Disposal Parachute Rigging AR-1733-0011	Patriot	Ballistic Missile Electrical Mechanical Repair (Pershing) AR-1715-0122
Parachute Rigger AR-1733-0008	Air Defense Artillery (ADA) Officer Advanced Follow-On Training Patriot Track AR-1715-0796	Pershing Electrical-Mechanical Repair AR-1715-0122
	Air Defense Artillery (ADA) Officer Advanced Patriot Follow-On AR-1715-0796	Pershing Electrical-Mechanical Repairer Basic Noncommissioned Officer (NCO) AR-1715-0649
		Pershing Electronic Material Specialist Basic Noncommissioned Officer (NCO) AR-1715-0624

- Pershing Electronics Materiel Specialist
Advanced Noncommissioned Officer (NCO)
AR-2201-0291
- Pershing Electronics Repairer
AR-1715-0752
- Pershing Electronics Repairer Basic Non-
commissioned Officer (NCO)
AR-1715-0751
- Pershing II Electronics Materiel Specialist
AR-1715-0823
- Pershing II Electronics Materiel Specialist
Advanced Noncommissioned Officer (NCO)
AR-2201-0291
- Pershing II Missile Crewmember
AR-1715-0486
- Pershing II Missile Crewmember Advanced
Noncommissioned Officer (NCO)
AR-2201-0288
- Pershing II Missile Crewmember Basic Non-
commissioned Officer (NCO)
AR-1715-0636
- Pershing II Officer
AR-1715-0324
- Pershing II Support Repair Technician (DG/
GS)
AR-1715-0644
- Pershing Missile Crewmember
AR-1715-0486
- Pershing Missile Crewmember Basic Non-
commissioned Officer (NCO)
AR-2201-0370
- Pershing Missile Systems Technician War-
rant Officer Technical Certification
AR-1715-0842
- Pershing Officer
AR-1715-0324
- Pershing System Maintenance
AR-1715-0488
- PERSINSD**
PERSINSD Automatic Data Processing
(ADP) Intern Program
AR-1402-0008
- Personal**
Basic Joint Personal Property
AR-0419-0037
- Introduction to Personal Computers
AR-1402-0149
- Introduction to Personal Computing
AR-1402-0135
- Joint Personal Property
AR-0419-0037
AR-0419-0063
- Personnel**
Director of Personnel and Community
Activities (DPCA)
AR-1513-0010
- Military Personnel Technician Warrant
Officer Technical and Tactical Certification
Reserve Component Phase 2
AR-1406-0152
- Military Personnel Technician Warrant
Officer Technical/Tactical Certification
AR-1406-0151
- Personnel Actions Specialist
AR-1406-0026
- Personnel Actions Specialist Basic Noncom-
missioned Officer (NCO)
AR-1406-0150
- Personnel Administration Specialist
AR-1406-0105
AR-1406-0153
- Personnel Administration Specialist Basic
Noncommissioned Officer (NCO)
AR-1406-0100
- Personnel and Logistics Staff Noncommis-
sioned Officer (NCO)
AR-1406-0123
- Personnel Information System Management
Specialist
AR-1403-0013
- Personnel Information Systems Management
Specialist Basic Noncommissioned Officer
(NCO)
AR-1405-0196
- Personnel Management
AR-1406-0110
- Personnel Management Specialist
AR-1406-0147
- Personnel Management Specialist Basic
Noncommissioned Officer (NCO)
AR-1406-0148
- Personnel Records Specialist
AR-1406-0011
- Personnel Records Specialist Basic Non-
commissioned Officer (NCO)
AR-1406-0149
- Personnel Sergeant Advanced Noncommis-
sioned Officer (NCO)
AR-1406-0102
- Personnel Service Center Basic Noncommis-
sioned Officer (NCO)
AR-1403-0014
- Personnel Staff Noncommissioned Officer
(NCO) Military Personnel Technician
AR-1406-0132
- Pest**
Department of Defense Pest Management
AR-0101-0002
- Petroleum**
Advanced Petroleum Management
AR-1601-0065
- Petroleum and Water Specialist Advanced
Noncommissioned Officer (NCO)
AR-1717-0092
- Petroleum Laboratory Specialist
AR-1601-0030
- Petroleum Laboratory Specialist Basic Non-
commissioned Officer (NCO)
AR-1601-0071
AR-1601-0095
- Petroleum Officer
AR-1601-0097
- Petroleum Supply Reserve Specialist
Reserve Component
AR-1601-0076
- Petroleum Supply Specialist
AR-1601-0075
- Petroleum Supply Specialist Basic Noncom-
missioned Officer (NCO)
AR-1601-0072
- Petroleum Supply Specialist Basic Noncom-
missioned Petroleum Supply Specialist
Basic Noncommissioned Officer (NCO)
AR-1601-0072
- Petroleum Vehicle Operator
AR-2101-0003
- Pharmacy**
Nuclear Pharmacy Orientation
AR-0799-0024
- Orientation to Army Medical Department
(AMEDD) Pharmacy Services
AR-0709-0041
- Pharmacy Specialist
AR-0709-0005
AR-0709-0052
- Pharmacy Sterile Products
AR-0709-0017
AR-0709-0053
- Photography**
Forensic Photography
AR-1728-0118
- Physical**
Commodity Command Standard System
Physical Inventory Management
AR-1405-0218
- Commodity Command Standard System
Physical Inventory Management by Corre-
spondence
AR-1405-0230
- Conventional Physical Security
AR-1728-0065
- Conventional Physical Security/Crime Pre-
vention
AR-1728-0094
- Nuclear Physical Security
AR-1728-0064
- Physical Therapy Specialist
AR-0704-0001
AR-0704-0012
- Physical Therapy Specialty
AR-0704-0012
- Standard Depot System Depot Physical
Inventory Management
AR-1405-0219
- Physics**
Health Physics Specialist
AR-0705-0009
- Prime Power Production Specialist (Health
Physics and Plant Chemistry Specialty)
AR-1720-0002
- Pilot**
AH-1 Instructor Pilot Methods of Instruction
(MOI) (Contact, Tactics, and Gunnery)
(Night Vision Goggle)
AR-1406-0114
- AH-1S Instructor Pilot
AR-1406-0117
- AH-1S Maintenance Manager/Test Pilot
AR-1717-0083
- AH-64 Instructor Pilot
AR-1606-0168
- AH-64 Instructor Pilot Methods of Instruc-
tion
AR-1406-0121
- AH-64 Maintenance Manager/Test Pilot
AR-1717-0093
- CH-47 (Chinook) Pilot Transition
AR-1606-0064
- CH-47A/B/C Maintenance Manager/Test
Pilot
AR-1717-0084
- CH-47D Instructor Pilot
AR-1406-0120
- CH-47D Maintenance Manager/Test Pilot
AR-1717-0084
- Night/Night Vision Goggle Instructor Pilot
AR-1606-0172
- OH-58 Aeroscout Instructor Pilot Methods
of Instruction
AR-1606-0165
- OH-58 Instructor Pilot
AR-1606-0047
- OH-58 Transition/Gunnery Instructor Pilot
(IP) Qualification
AR-1606-0047
- OH-58A/C Instructor Pilot
AR-1406-0122
- OH-58A/C Maintenance Manager/Test Pilot
AR-1717-0085
- OH-58D Field Artillery Instructor Pilot Fire
Support
AR-2201-0377

OH-58D Instructor Pilot	AR-1406-0119
OH-58D Instructor Pilot Methods of Instruction (MOI)	AR-1406-0118
OH-58D Maintenance Manager/Test Pilot	AR-1717-0086
T-42 Instructor Pilot (IP) Methods of Instruction	AR-1406-0072
TH-55 Instructor Pilot Methods of Instruction	AR-1406-0075
U-21 Instructor Pilot	AR-1406-0116
UH-1 Contact Instructor Pilot	AR-1606-0053
UH-1 Contact Instructor Pilot (Interim)	AR-1406-0076
UH-1 Contact Instructor Pilot Methods of Instruction	AR-1406-0077
UH-1 Contact, Tactics, Night/Night Vision Goggle (N/NVG) Instructor Pilot Methods of Instruction	AR-1406-0113
UH-1 Instructor Pilot	AR-1606-0053
UH-1 Maintenance Manager/Test Pilot	AR-1717-0082
UH-60 Instructor Pilot	AR-1406-0079
UH-60 Maintenance Manager/Test Pilot	AR-1717-0087
	AR-1717-0088

Pre-Command

Aviation Pre-Command
AR-1606-0173

Engineer Pre-Command
AR-1408-0202

Military Intelligence Pre-Command
AR-1606-0197

Ordnance Pre-Command
AR-2201-0318

Pre-Command Phase 3, Systems Proficiency
AR-2201-0315

Prevention

Alcohol and Drug Abuse Prevention and Control (ADAPCP) Family Counseling
AR-1512-0024

Alcohol and Drug Abuse Prevention and Control Program
AR-0801-0035

Alcohol and Drug Abuse Prevention and Control Program Advanced Counseling Skills
AR-1512-0012

Alcohol and Drug Abuse Prevention and Control Program Alcohol and Drug Control Officer
AR-0801-0015

Alcohol and Drug Abuse Prevention and Control Program Clinical Director/Clinical Consultant
AR-0801-0014

Alcohol and Drug Abuse Prevention and Control Program Family Counseling
AR-1512-0013

Alcohol and Drug Abuse Prevention and Control Program Group Counseling Skills
AR-1512-0014

Alcohol and Drug Prevention and Control Program Individual Counseling Skills
AR-1512-0015

Conventional Physical Security/Crime Prevention
AR-1728-0094

Conventional Security/Crime Prevention
AR-1728-0065

Preventive

Preventive Dentistry Specialty
AR-0701-0016

Preventive Medicine Program Management
AR-0707-0014

Preventive Medicine Specialist
AR-0707-0016

Preventive Medicine Specialist Reserve Component (Nonresident/Resident) Phase 2
AR-0707-0017

Principles of Military Preventive Medicine
AR-0707-0020

Principles of Military Preventive Medicine (CHN)
AR-0799-0020

Principles of Military Preventive Medicine (ENTO)
AR-0709-0045

Principles of Military Preventive Medicine (MC/VC/DC)
AR-0703-0024

Principles of Military Preventive Medicine (MS)
AR-0801-0024

Senior Officer Preventive Logistics
AR-1408-0150

Primary

Primary Leadership Development
AR-2201-0253

Primary Leadership Development Reserve Component
AR-2201-0294

Prime

Prime Power Production Instrumentation Specialist
AR-1720-0010

Prime Power Production Specialist (Electrical Specialty)
AR-1720-0003

Prime Power Production Specialist (Health Physics and Plant Chemistry Specialty)
AR-1720-0002

Prime Power Production Specialist (Instrumentation Specialty)
AR-1720-0005

Prime Power Production Specialist (Mechanical Specialty)
AR-1720-0004

Prime Power Production Specialist, Electrical Specialty
AR-1720-0009

Prime Power Production Specialist, Mechanical Specialty
AR-1720-0011

Prime Power Production Specialist, Phases 1 and 2
AR-1720-0012

Print

Latent Print Examiner
AR-1728-0117

Process

Army Provisioning Process
AR-1405-0221

Processing

Electronic Processing and Dissemination System Operator/Analyst
AR-1402-0141
AR-1715-0790

Electronic Warfare (EW)/Intercept Strategic Signal Processing and Storage Subsystem Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0719

Electronic Warfare (EW)/Intercept Strategic Signal Processing/Storage Subsystem Repairer
AR-1715-0718

Military Enlistment Processing Station (MEPS) Guidance Counselor National Guard (ARNG)
AR-2201-0352

Production

Prime Power Production Specialist (Electrical Specialty)
AR-1720-0003

Prime Power Production Specialist (Health Physics and Plant Chemistry Specialty)
AR-1720-0002

Prime Power Production Specialist (Instrumentation Specialty)
AR-1720-0005

Prime Power Production Specialist (Mechanical Specialty)
AR-1720-0004

Professional

Professional Artillery Refresher
AR-2201-0378

Warrant Officer Professional Development
AR-1406-0112

Program

Preventive Medicine Program Management
AR-0707-0014

Programmed

English 3200: Programmed Course in Grammar and Usage
AR-0602-0007

Programmer

Programmer/Analyst
AR-1402-0114

Programmer/Analyst Basic Noncommissioned Officer (NCO)
AR-1402-0120

Programming

Ada Programming Language
AR-1402-0147

C Programming Language
AR-1402-0148

COBOL Programming
AR-1402-0107

Expert Systems Architecture and Object-Oriented Programming
AR-1402-0098

Planning, Programming, Budgeting and Execution Systems
AR-1408-0165

Tactical Army Combat Service Support Computer System (TACCS) Programming
AR-1402-0109

Property

Basic Joint Personal Property
AR-0419-0037

Defense Reutilization and Marketing Property Accounting
AR-1405-0116
AR-1405-0243

Joint Personal Property
AR-0419-0037
AR-0419-0063

Property Accounting Technician Quartermaster Warrant Officer Technical/Tactical Certification
AR-1405-0185

Property Accounting Technician Senior Warrant Officer
AR-1405-0187

Property Accounting Technician Senior Warrant Officer Reserve Component
AR-1405-0184

Property Accounting Technician Warrant Officer Advanced
AR-1405-0184
AR-1405-0187

Property Accounting Technician Warrant Officer Basic
AR-1405-0185

Property Accounting Technician Warrant Officer Technical/Tactical Certification Reserve
AR-1405-0186

Property Book Technician Quartermaster Warrant Officer Technical/Tactical Certification
AR-1405-0185

Property Book Technician Senior Warrant Officer Training
AR-1405-0187

Property Book Technician Senior Warrant Officer Training Reserve Component
AR-1405-0184

Property Book Technician Warrant Officer Technical/Tactical Certification Reserve
AR-1405-0186

Standard Property Book System Functional
AR-1405-0165

Standard Property Book System Redesigned
AR-1405-0166

Standard Property Book System-Rede- signed-Installation/Table of Distribution and Allowances	AR-1405-0166	Hawk Field Maintenance Equipment/Pulse Acquisition Radar Repairer Basic Noncom- missioned Officer (NCO)	AR-1715-0742	Special Operations Qualification Reserve Component Phase 2	AR-0803-0008
Propulsion		Hawk Pulse Acquisition Radar Mechanic	AR-1715-0961	Transportation Officer (Branch Qualifica- tion)	AR-0419-0062
Lighter Air-Cushion Vehicle 30 Ton Propel- sion System	AR-1710-0178	Hawk Pulse Radar Repairer Basic Noncom- missioned Officer (NCO)	AR-1715-0742	Quality	
Protection		Hawk Pulse Radar Repairer Transition	AR-1715-0744	Materials Quality Specialist	AR-1601-0088
Apprentice Fire Protection Specialist (Army 51M10)	AR-1728-0113	Purchase		Quality Audit of Subsistence	AR-0709-0042
Fire Protection Management Principles (Army 51M20/30)	AR-1728-0112	Defense Small Purchase Advanced	AR-1408-0188	Quantitative	
Fire Protection Technology	AR-1728-0111	Defense Small Purchase Basic	AR-1408-0187	Resource Management Quantitative	AR-1115-0012
Small Unit Leader's Force Protection	AR-0802-0027	Defense Small Purchase Basic by Corre- spondence	AR-1408-0199	Quarrying	
Protective		Executive Small Purchase	AR-1408-0188	Quarrying Specialist	AR-1710-0171
Protective Services Training	AR-1728-0071	Small Purchase Fundamentals	AR-1408-0187	Quartermaster	
Provisioning		Purchasing		Combined Logistics Officer Advanced Quar- termaster Branch Specific Track	AR-1405-0237
Army Provisioning Process	AR-1405-0221	Purchasing Fundamentals	AR-1408-0187	Property Accounting Technician Quarter- master Warrant Officer Technical/Tactical Certification	AR-1405-0185
Maintenance Provisioning Procedures	AR-1405-0224	Qualification		Property Book Technician Quartermaster Warrant Officer Technical/Tactical Certifica- tion	AR-1405-0185
Provisioning	AR-1405-0221	AH-64 Aviator Qualification	AR-1606-0179	Quartermaster Chemical Equipment Repairer	AR-1710-0159
Provost		Antiterrorism Instructor Qualification	AR-1406-0095	Quartermaster Officer Advanced	AR-1408-0155
Installation Provost Marshal	AR-1728-0068	CH-47D Aviator Qualification	AR-1606-0178	Quartermaster Officer Advanced Reserve, Phase II	AR-2201-0407
Psychiatric		Chaparral/Vulcan Noncommissioned Officer (NCO) Qualification	AR-2201-0063	Quartermaster Officer Basic	AR-1405-0069
Psychiatric Mental Health Nurse	AR-0708-0003	Chaparral/Vulcan Officer and Noncommis- sioned Officer (NCO) Qualification	AR-2201-0063	Quartermaster Officer Branch Qualification	AR-1405-0236
Psychiatric Procedures Basic	AR-0708-0001	Chaparral/Vulcan Officer Qualification	AR-2201-0063	Quartermaster Officer Senior Warrant Officer	AR-1408-0157
Psychiatric Specialist	AR-0708-0001	Guardrail Systems Qualification	AR-1715-0913	Quartermaster/Chemical Equipment Repairer	AR-1710-0095
Psychiatric/Mental Nursing	AR-0708-0005	Guardrail V System Qualification (RU-21 (Guardrail V) (2R)) (RU-21 (Guardrail) Sys- tems Qualification)	AR-1715-0569	Quartermaster/Chemical Equipment Repairer Basic Technical	AR-1710-0095
Psychological		OH-58D Aviator Qualification	AR-1606-0161	Quartermaster/Chemical Equipment Repairer Transition	AR-1710-0160
Joint Psychological Operations Staff Plan- ning	AR-1512-0023	OV/RV-1D (Mohawk) System Qualification	AR-1715-0912	Repair Parts Technician Quartermaster War- rant Officer Technical/Tactical Certification	AR-1405-0188
Psychological Operations Advanced Non- commissioned Officer	AR-1512-0025	OV/RV-1D (Mohawk) Systems Qualification	AR-1715-0498	Repair Parts Technician Quartermaster War- rant Officer Technical/Tactical Certification Reserve Component	AR-1405-0190
Psychological Operations Advanced Non- commissioned Officer, (NCO) Reserve Com- ponent, Phase 2	AR-1512-0026	Quartermaster Officer Branch Qualification	AR-2201-0406	Senior Utilities Quartermaster/Chemical Equipment Repairer Basic Noncommis- sioned Officer (NCO) Technical Portion	AR-1601-0080
Psychological Operations Basic Noncom- missioned Officer (NCO)	AR-1512-0020	Quickfix 2 System Qualification	AR-1606-0204	Senior Utilities, Quartermaster/Chemical Equipment Repairer Basic Noncommis- sioned Officer (NCO) Common Core	AR-1406-0142
Psychological Operations Officer	AR-1512-0018	RC-12D Improved Guardrail Systems Quali- fication (RC-12D (Improved Guardrail V) Systems Qualification)	AR-1715-0568	Supply Systems Technician Quartermaster Warrant Officer Technical/Tactical Certifica- tion	AR-1405-0188
Psychological Operations Specialist	AR-1512-0021	Rotary Wing Qualification	AR-1606-0180		
Reserve Component Psychological Opera- tions Officer	AR-1512-0017	Signal Officer (Branch Qualification)	AR-1408-0210		
Reserve Component Psychological Opera- tions Specialist	AR-1512-0022	Skill Qualification Test (SQT) Developer's Workshop	AR-1406-0091		
Pulse		Special Forces Combat Diver Qualification	AR-0803-0006		
Hawk Field Maintenance Equipment/Pulse Acquisition Radar Repairer	AR-1715-0745	Special Forces Detachment Officer Qualifi- cation Reserve Component Phase 4	AR-2201-0347		

- Supply Systems Technician Quartermaster
Warrant Officer Technical/Tactical Certification Reserve
AR-1405-0190
- Quickfix**
Quickfix 2 Crew Certification
AR-1606-0205
Quickfix 2 System Qualification
AR-1606-0204
- Quicklook**
Quicklook 2 Maintenance Training
AR-1405-0227
Quicklook 2 Operator
AR-1715-0730
- Radar**
Air Traffic Control Radar Controller
AR-1704-0003
Avionic Radar Repairer
AR-1715-0660
Defense Acquisition Radar Operator
AR-1715-0808
Field Artillery (AN/TPS-58B) Radar Operator
AR-1715-0493
Field Artillery Digital Automatic Computer Radar Technician
AR-1715-0566
Field Artillery Firefinder Radar Operator
AR-1715-0829
Field Artillery Moving Target Locating Radar/Sensor Operator
AR-1715-0493
Field Artillery Radar Basic Noncommissioned Officer (NCO)
AR-1715-0635
Field Artillery Radar Basic Technical
AR-1715-0635
Field Artillery Radar Crew Member
AR-1715-0250
Field Artillery Radar Crewman
AR-1715-0250
Field Artillery Radar Crewmember Noncommissioned Officer (NCO) Advanced
AR-2201-0292
Field Artillery Radar Operator
AR-1715-0250
Firefinder Radar Repairer
AR-1402-0075
Forward Area Alerting Radar (FAAR) Operator
AR-1715-0808
Forward Area Alerting Radar (FAAR) Organizational Maintenance
AR-1715-0585
Forward Area Alerting Radar (FAAR) Repair
AR-1715-0169
Forward Area Alerting Radar (FAAR) Repairer
AR-1715-0169
Forward Area Alerting Radar (FAAR) Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0642
Ground Control Radar Repair
AR-1715-0199
Ground Surveillance Systems Operator (Ground Surveillance Radar Crewman)
AR-1715-0178
Hawk Continuous Wave (CW) Radar Repairer
AR-1715-0738
Hawk Continuous Wave (CW) Radar Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0743
- Hawk Field Maintenance Equipment/Pulse Acquisition Radar Repairer
AR-1715-0745
Hawk Field Maintenance Equipment/Pulse Acquisition Radar Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0742
Hawk Fire Control/Continuous (CW) Wave Radar Repairer Transition
AR-1715-0904
Hawk Fire Control/Continuous Wave (CW) Radar Repairer
AR-1715-0905
Hawk Pulse Radar Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0742
Hawk Pulse Radar Repairer Transition
AR-1715-0744
Hawk Radar Signal Simulator Station Repairer
AR-1715-0397
Improved Hawk Radar Signal Simulator Station Repairer
AR-1715-0397
Joint Surveillance Target Attack Radar System (JStars) Ground Station Module (GSM) Operator/Supervisor
AR-1715-0870
Marine Radar Observer
AR-1715-0157
AR-1715-0919
Radar Engagement Simulator AN/TPQ-29
AR-1715-0300
Target Acquisition Radar Technician
AR-1715-0558
Target Acquisition Radar Technician Warrant Officer Advanced
AR-1402-0111
Target Acquisition Radar Technician Warrant Officer Technical Certification
AR-1715-0840
Target Acquisition Radar Technician Warrant Officer Technical Certification (Reserve Component)
AR-1715-0841
Target Acquisition Radar Technician-Warrant Officer Technical Certification
AR-1715-0558
Target Acquisition/Surveillance Radar Repairer
AR-1715-0839
Target Acquisition/Surveillance Radar Repairer Basic Noncommissioned Officer (NCO)
AR-1408-0170
- Radiation**
Radiation Safety Specialist
AR-0705-0009
- Radio**
Communication Electronics Radio Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0685
Digital Radio and Multiplexer Acquisition (DRAMA) Communications Systems Repair
AR-1715-0665
Digital Radio Multiplexer Acquisition (DRAMA)
AR-1715-0665
FM Radio Alignment
AR-1715-0554
Radio and Repair Alignment
AR-1715-0554
Radio Operator-Maintainer
AR-1404-0009
Radio Repairer
AR-1715-0663
- Radio Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0685
Radio Terminal/Repeater Set Operations Maintenance
AR-1715-0762
Radio Terminal/Repeater Set Operator
AR-1715-0775
Single Channel Radio Operator
AR-1404-0009
Single Channel Radio Operator Basic Noncommissioned Officer (NCO)
AR-1404-0037
Single Channel Radio Team Chief
AR-1404-0038
- Radiographic**
Radiographic Procedures Basic
AR-0705-0001
- Radiological**
Radiological Safety
AR-0705-0003
- Radiology**
Radiology Noncommissioned Officer (NCO) Management
AR-0705-0004
AR-0705-0011
Radiology Specialist
AR-0705-0001
- Ranger**
Ranger
AR-2201-0041
AR-2201-0434
Reserve Officer Training Course (ROTC) Ranger
AR-2201-0278
- Reaction**
Special Reaction Team Training
AR-1728-0072
Special Reaction Team Training Phase 1 and Special Reaction Training Marksman/Observer Phase 2
AR-1728-0093
- Reading**
Reading Improvement
AR-0306-0001
- Receiving**
AN/TSQ-133 Special Purpose Receiving System (Tracechain) Maintenance
AR-1715-0733
Tracechain AN/FSQ-133 Special Purpose Receiving System Maintenance
AR-1715-0733
- Reconnaissance**
Nuclear, Biological, Chemical (NBC) Reconnaissance
AR-0801-0026
Special Operations Reconnaissance
AR-1511-0018
Strategic Reconnaissance
AR-1511-0018
- Record**
Record Telecommunications Center Operator
AR-1404-0046
AR-1404-0047
Record Telecommunications Center Operator Basic Noncommissioned Officer (NCO)
AR-1404-0047
Record Telecommunications Operator-Maintainer
AR-1404-0046

Records

Equipment Records and Parts Specialist
Advanced Individual Training
AR-1405-0175

Personnel Records Specialist
AR-1406-0011

Personnel Records Specialist Basic Non-
commissioned Officer (NCO)
AR-1406-0149

Unit Records Administration
AR-1408-0173

Recovery

Heavy Wheel Vehicle Recovery Specialist
AR-1710-0117

ITV/IFV/CFV Systems Mechanic Recovery
Specialist
AR-1703-0047

Light Wheel Vehicle Mechanic (Recovery
Specialist)
AR-1703-0052

M1 Abrams Tank Recovery Specialist
AR-1710-0135

M60A1/A3 Tank Recovery Specialist
AR-1703-0051

Recovery Operations (Track)
AR-1710-0139

Recovery Operations (Wheel)
AR-1710-0153

Recovery Specialist-ASIH8/Track Recovery
Operations (M88A1/M578)
AR-1710-0139

Recovery Specialist-ASIH8/Wheel Recov-
ery Operations (M816/936/984E1)
AR-1710-0153

Track Vehicle Recovery Specialist
AR-1710-0124

Wheel Vehicle Recovery Specialist
AR-1710-0118

Recruit

Recruit Training
AR-2201-0399

Recruiter

In-Service Recruiter/Retention Noncommis-
sioned Officer (NCO)
AR-1406-0165

National Guard (ARNG) Advanced
Recruiter and Sales
AR-1406-0134

National Guard (ARNG) Recruiter and Sales
AR-1406-0139

Recruiter
AR-1406-0103

Recruiting

ARNG Recruiting Field Sales Manager
AR-1406-0101

National Guard (ARNG) Recruiting and
Retention Detachment Commander
AR-1408-0183

National Guard (ARNG) Recruiting Field
Sales Manager
AR-1408-0185

National Guard Recruiting Advanced
AR-1406-0101

Nurse Recruiting
AR-1406-0161

Recruiting and Retention Advanced Non-
commissioned Officer (NCO)
AR-1406-0158

Recruiting and Retention Basic Noncommis-
sioned Officer (NCO)
AR-1406-0156

Recruiting Commander
AR-1406-0162

Recruiting First Sergeant
AR-1406-0166

Recruiting Operations (S3)

AR-1406-0157

Recruiting Station Commanders
AR-1406-0032

Redeye

Chaparral Redeye Repairer
AR-1715-0529

Chaparral/Redeye Repairer Basic Noncom-
missioned Officer (NCO)
AR-1715-0641

Chaparral/Redeye Repairer Basic Technical
(BT)
AR-1715-0641

Man Portable Air Defense (MANPAD) Crew
Member (Redeye) Reserve Component
AR-1715-0801

Redeye and Stinger Gunner/Operator
AR-1715-0576

Reenlistment

Army Reenlistment Officer
AR-1406-0061

Reference

Secondary Reference Laboratory Specialist
AR-1303-0004

Regional

Regional Studies
AR-1511-0027

Registration

Graves Registration Specialist
AR-0709-0038

Graves Registration Specialist Advanced
Noncommissioned Officer (NCO)
AR-0709-0037

Graves Registration Specialist Basic Techni-
cal
AR-0709-0027

Rehabilitation

Army Drug and Alcohol Rehabilitation
AR-0801-0007

Army Drug and Alcohol Rehabilitation
Training Group
AR-0801-0007

Drug and Alcohol Rehabilitation Training
Individual
AR-0801-0025

Rehabilitation Training Instructor
AR-0799-0023

Renal

Renal Dialysis Nurse Education
AR-0703-0017

Renal Dialysis Nurse Education, Phase 2 and
3
AR-0703-0017

Renal Dialysis Technician
AR-0702-0005

Retention

National Guard (ARNG) Retention Non-
commissioned Officer (NCO)
AR-2201-0388

Repair

Aviation Maintenance Officer and Repair
Technician Phase II CH-47D
AR-1717-0075

Fabric Repair Specialist
AR-1716-0011

Fabric Repair Specialist Advanced Individ-
ual Training
AR-1716-0011

Laundry and Shower/Fabric Repair Special-
ist
AR-1716-0010

Repair Shop Technician Senior Warrant
Officer Reserve Component

AR-1717-0106

Repair Shop Technician, Warrant Officer
Technical/Tactical Certification, Phases 2
and 4
AR-1717-0102

Repeater

Radio Terminal/Repeater Set Operations
Maintenance
AR-1715-0762

Radio Terminal/Repeater Set Operator
AR-1715-0775

Reporter

Court Reporter Noncommissioned Officer
(NCO) Advanced
AR-1407-0006

Legal Specialist/ Court Reporter Basic Non-
commissioned Officer (NCO)
AR-1407-0009

Research

Intelligent Technologies for Operations
Research
AR-1402-0137

Introduction to Operations Research Sys-
tems Analysis by Correspondence
AR-1115-0014

Operations Research and Systems Analysis
(ORSA) Familiarization by Correspondence
AR-1115-0014

Operations Research Systems Analysis
(ORSA) Military Skills Development
AR-1402-0138

Operations Research Systems Analysis Military
Applications (ORSA MAC), Phases 1
and 2
AR-1402-0164

Operations Research Systems Analysis Military
Applications 1 (ORSA MAC 1)
AR-1402-0139

Operations Research Systems Analysis Military
Applications 2 (ORSA MAC 2)
AR-1402-0140

Reserve

Adjutant General Officer Advanced (Com-
pany Command Module) Reserve Compo-
nent Phase 1
AR-1408-0201

Advanced Course for Reserve Component
Noncommissioned Officer (NCO)
AR-2201-0295

Advanced Noncommissioned Officer
(NCO) Common Leader, Reserve, Phase 1
AR-2201-0295

Advanced Noncommissioned Officer
(NCO) Reserve Component
AR-2201-0338

Air Defense Artillery Officer Advanced -
Reserve
AR-2201-0423

Air Defense Artillery Officer Advanced
Reserve
AR-1715-0963

Air Defense Artillery Patriot Officer Reclas-
sification - Reserve - Phase 2 and 4
AR-2201-0417

Aircraft Maintenance (CMF 67) Advanced
Noncommissioned Officer (NCO) Reserve
AR-1704-0196

AMEDD Reserve Component Officer
Advanced (Phase 2)
AR-0799-0015

Ammunition Specialist (Phase 2) Basic Non-
commissioned Officer (NCO) Reserve
AR-1715-0896

Ammunition Specialist (Phase 3) Basic Non-commissioned Officer (NCO) Reserve
AR-1715-0896

Ammunition Specialist Advanced Noncommissioned Officer (NCO) Reserve
AR-2201-0395

Ammunition Specialist Reserve Component Phase 2
AR-2201-0396

Ammunition Specialist Reserve, Phase 2
AR-1710-0165

Ammunition Stock Control and Accounting Specialist Basic Noncommissioned Officer (NCO) Reserve
AR-2201-0397

Ammunition Stock Control and Accounting Specialist Reserve
AR-1405-0229

Ammunition Technician Senior Warrant Officer Reserve (Phase 1 and 2)
AR-1408-0198

Ammunition Technician Warrant Officer Technical and Tactical Certification Reserve (Phase 2 and 4)
AR-2201-0394

Apprentice Criminal Investigation Division (CID) Special Agent Reserve Component Phase 2 Resident
AR-1728-0105

Apprentice Criminal Investigation Division (CID) Special Agent Reserve Component Phase 4 Resident
AR-1728-0106

Armament Repair Technician Senior Warrant Officer Reserve Component Phase 2
AR-1717-0105

Armor Officer Advanced Reserve Component
AR-2201-0321

Armor Officer Basic National Guard/Army Reserve
AR-1710-0136

Armor Officer Basic Reserve Component
AR-1710-0136

Army Medical Department (AMEDD) Reserve Component Officer Advanced
AR-0799-0015

Army Medical Department Staff Development (Reserve Component) (Nonresident/Resident)
AR-0799-0017

Army Reserve Retention Noncommissioned Officer (NCO)
AR-2201-0357

Associate Logistics Executive Development Reserve Component
AR-1405-0213

Associate Logistics Executive Development Reserve Component by Correspondence
AR-1405-0214

Aviation Life Support Equipment Technician (AIsET), Reserve Component
AR-1408-0211

Avionic Communications Equipment Repairer Basic Noncommissioned Officer (NCO) Reserve
AR-1715-0967

Avionic Maintenance Supervisor Advanced Noncommissioned Officer (NCO) Reserve
AR-1715-0966

Basic Noncommissioned Officer (NCO) Common Leader Reserve Training
AR-2201-0337

Basic Noncommissioned Officer (NCO) Reserve Component Phase I Common Leader Training
AR-2201-0337

Battery Computer System Cadre Reserve Component
AR-2201-0383

Carpentry/Masonry Specialist Reserve Component
AR-1601-0085

CH 54 Heavy Lift Helicopter Repairer Reserve Component
AR-1704-0148

Chaplain Assistant Basic Noncommissioned Officer (NCO) Reserve Component
AR-1406-0130

Chaplain Officer Advanced Reserve Component
AR-1408-0180

Chaplain Reserve Component General Staff College
AR-1408-0128

Civil Affairs Officer Advanced Nonresident/Resident Reserve Component
AR-1511-0014

Civil Affairs Officer Advanced Nonresident/Resident, Reserve Component Phase 2
AR-1511-0014

Civil Affairs Specialist Reserve
AR-1511-0026

Communications-Electronics Technician Warrant Officer Technical Certification Reserve Component Phases 2 and 4
AR-1715-0858

Criminal Investigation Division (CID) Warrant Officer Technical and Tactical Certification Reserve Phase 2
AR-1728-0098

Dental Specialist Reserve Component (Nonresident/Resident) Phase 2
AR-0701-0012

Engineer Equipment Repair Technician Senior Warrant Officer Reserve
AR-1712-0023

Engineer Equipment Repair Technician Warrant Officer Technical Tactical Certification Reserve
AR-1601-0093

Field Artillery Officer Advanced, Reserve Component
AR-1408-0174

Finance Officer Advanced Nonresident/Resident Reserve Component Phases 1 and 3
AR-1401-0046

First Sergeant Course for Reserve Component
AR-2201-0299

First Sergeant for Reserve Components
AR-2201-0299

Food Service Specialist Reserve
AR-1729-0046

Food Service Technician Senior Warrant Officer, Reserve
AR-1729-0036

Food Service Technician Warrant Officer Technical/Tactical Certification Reserve Component
AR-1729-0037

Hawk Missile Air Defense Artillery Officer Reclassification, Reserve
AR-2201-0419

Hospital Food Service Specialist (Basic) Reserve Component
AR-1729-0044

Individual Ready Reserve Premobilization
AR-2201-0457

Infantry Officer Basic Reserve Component
AR-2201-0438

Intelligence/Electronic Warfare Equipment Technician Warrant Officer Technical/Tacti-

cal Certification (Reserve Component) Phases 2 and 3
AR-1408-0207

Land Combat Missile Systems Technician Warrant Officer Technical and Tactical Certification Reserve (Phases 2 and 4)
AR-1715-0894

Laundry and Bath Specialist, Reserve
AR-1716-0009

Light Wheel Vehicle Mechanic Individual Ready Reserve Refresher
AR-1710-0121

M60A3 Tank System Mechanic Individual Ready Reserve Refresher
AR-1710-0122

Man Portable Air Defense (MANPAD) Crew Member (Redeye) Reserve Component
AR-1715-0801

Man Portable Air Defense (MANPAD) Crewmember (Stinger) Reserve Component
AR-1715-0800

Master Fitness Trainer Reserve Component
AR-0803-0011

Master Fitness Training, Reserve Component
AR-0803-0011

Materiel Acquisition Management for Reserve Components, Phases 2 and 4
AR-1405-0226

Materiel Acquisition Management, Phases 1, 2, 3, 4, for Reserve Components
AR-1405-0226

Medical Logistics Management Reserve
AR-1408-0154

Medical Supply Specialist (Basic) Reserve Component, Phase 2
AR-1405-0202

Medical Supply Specialist Reserve
AR-1405-0202

Metalworker Individual Ready Reserve (44B20)
AR-1703-0049

Military Intelligence Warrant Officer Reserve Component
AR-1606-0195

Military Personnel Technician Warrant Officer Technical and Tactical Certification Reserve Component Phase 2
AR-1406-0152

OH-6-RC Observation/Scout Helicopter Repairer Reserve Component
AR-1704-0155

Operating Room Nursing for Army Nurse Corps Officer (Reserve Component)
AR-0703-0019

Ordnance Missile Materiel Management Officer-Reserve
AR-1405-0156

Ordnance Munitions Materiel Management Officer Reserve
AR-1405-0157

Patient Administration Reserve Component (Nonresident/Resident)
AR-0709-0043

Patient Administration Specialist Reserve Phase 2
AR-0709-0048

Petroleum Supply Reserve Specialist Reserve Component
AR-1601-0076

Preventive Medicine Specialist Reserve Component (Nonresident/Resident) Phase 2
AR-0707-0017

Primary Leadership Development Reserve Component
AR-2201-0294

Property Accounting Technician Senior Warrant Officer Reserve Component

AR-1405-0184

Property Accounting Technician Warrant Officer Technical/Tactical Certification Reserve

AR-1405-0186

Property Book Technician Senior Warrant Officer Training Reserve Component

AR-1405-0184

Property Book Technician Warrant Officer Technical/Tactical Certification Reserve

AR-1405-0186

Psychological Operations Advanced Noncommissioned Officer (NCO) Reserve Component, Phase 2

AR-1512-0026

Quartermaster Officer Advanced Reserve, Phase II

AR-2201-0407

Refresher Course, Heavy Wheel Vehicle Mechanic Individual Ready Reserve

AR-1703-0036

Repair Parts Technician Quartermaster Warrant Officer Technical/Tactical Certification Reserve Component

AR-1405-0190

Repair Parts Technician Senior Warrant Officer Reserve Components

AR-1405-0181

Repair Shop Technician Senior Warrant Officer Reserve Component

AR-1717-0106

Reserve Component Army Band Advanced Noncommissioned Officer (NCO), Phase 2

AR-1205-0008

Reserve Component Army Band Basic Noncommissioned Officer (NCO), Phase 2

AR-1205-0013

Reserve Component Army Medical Department Officer Advanced, Phase 2

AR-0799-0015

Reserve Component Army Medical Department Officer Advanced, Phase 3

AR-0799-0016

Reserve Component Master Fitness Trainer

AR-0803-0011

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AR-2201-0278

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Special Forces Detachment Officer Qualification Reserve Component Phase 4

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AR-2201-0403

Special Forces Medical Sergeant Advanced Noncommissioned Officer (NCO) Reserve Component Phase 2

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AR-1405-0190

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AR-1704-0195

Target Acquisition Radar Technician Warrant Officer Technical Certification (Reserve Component)

AR-1715-0841

Telecommunications Technician Warrant Officer Technical Certification Reserve Component Phases 2 and 4

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AR-1710-0126

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AR-1703-0038

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AR-1703-0053

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Traffic Management Coordinator Basic Noncommissioned Officer (NCO) Reserve

AR-0419-0064

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AR-1715-0916

Transportation Officer Advanced Reserve Phases II and IV

AR-0419-0047

UH-1 Helicopter Repairer Basic Noncommissioned Officer (NCO) Reserve Component

AR-1704-0189

UH-60 Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO) Reserve Component

AR-1704-0195

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Utility Helicopter Repairer Basic Noncommissioned Officer (NCO) Reserve Component

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Water Treatment Specialist Reserve Component

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Wheel Vehicle Repairer Individual Ready Reserve Refresher

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Survival, Evasion, Resistance, and Escape (SERE) Instructor Qualification

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Respiratory Specialist

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- Multiple Launch Rocket System (MLRS) Cadre
AR-1715-0935
- Multiple Launch Rocket System (MLRS) Crewman
AR-2201-0282
- Multiple Launch Rocket System (MLRS) Crewmember Advanced Noncommissioned Officer (NCO)
AR-2201-0367
- Multiple Launch Rocket System (MLRS) Family of Munitions
AR-2201-0408
- Multiple Launch Rocket System (MLRS) Mechanic
AR-2201-0280
- Multiple Launch Rocket System (MLRS) Repairer
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- Multiple Launch Rocket System (MLRS) Repairer Basic Noncommissioned Officer (NCO)
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- Initial Entry Rotary-Wing Aviator (OH-58)
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- Initial Entry Rotary-Wing Aviator Common Core
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AR-1405-0169
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- Satellite Communications (SATCOM) Systems Repairer Basic Noncommissioned Officer (NCO)
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AR-1715-0853

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AR-1715-0694

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AR-1715-0781

Satellite Communications (SATCOM) Operator, Navy
AR-1715-0438

Satellite Communications (SATCOM) Systems Operator/Maintainer
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AR-1715-0671

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M3 Bradley/CFV Cavalry Scout
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Marine Artillery Scout Observer
AR-2201-0145

Observation/Scout Helicopter Repairer
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Observation/Scout Helicopter Repairer (OH-6)
AR-1704-0093

Observation/Scout Helicopter Technical Inspector
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OH-58 Observation/Scout Helicopter Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0152

OH-58D Advanced Scout Helicopter Repairer
AR-1704-0194

OH-58D Scout Helicopter Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0202

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AR-1728-0065

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Self-Propelled Artillery System Technician
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AR-1406-0154

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AR-1408-0156

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AR-1717-0099

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Communications-Electronics Repair Technician Senior Warrant Officer
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AR-0701-0015

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Engineer Equipment Repair Technician Senior Warrant Officer Reserve
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Food Service Technician Senior Warrant Officer
AR-1408-0157

Food Service Technician Senior Warrant Officer, Reserve
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Land Combat Missile Systems Repair Technician Senior Warrant Officer
AR-1715-0900

Nuclear Weapons Technician Senior Warrant Officer
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		Food Service Specialist Advanced Individual Training	AR-1729-0041		
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Laundry and Shower/Fabric Repair Specialist
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AR-1716-0012

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AR-1715-0710
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AR-1717-0078
Electronic Warfare (EW) Signals Intelligence (SIGINT) Voice Interceptor Basic Noncommissioned Officer (NCO)
AR-1715-0728
Electronic Warfare (EW)/Signal Intelligence (SIGINT) Emitter Identifier/Locator
AR-1409-0011
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AR-1409-0012
Electronic Warfare (EW)/Signal Intelligence (SIGINT) Noncommunications Interceptor Analyst Basic Noncommissioned Officer (NCO)
AR-1715-0726
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AR-1715-0734
Electronic Warfare (EW)/Signals Intelligence (SIGINT) Emitter Locator/Identifier Basic Noncommissioned Officer (NCO)
AR-2201-0316
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AR-1717-0079
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AR-1406-0128
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AR-1715-0911

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AR-2201-0386
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AR-1715-0710
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AR-1715-0719
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AR-1409-0012
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AR-1715-0911
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AR-1406-0109
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AR-2201-0270
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AR-1717-0054
Signal Support Systems Specialist
AR-1715-0928
Signal Support Systems Specialist Basic Noncommissioned Officer (NCO)
AR-1715-0917
Signal Support Systems Supervisor Advanced Noncommissioned Officer (NCO)
AR-1715-0920
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AR-1402-0131
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AR-1715-0700

Signals

Electronic Warfare (EW) Signals Intelligence (SIGINT) Non-Morse Interceptor Basic Noncommissioned Officer (NCO)
AR-1717-0078
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AR-1715-0734
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AR-2201-0316
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AR-1717-0079
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AR-1715-0729
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AR-1406-0128
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AR-1715-0734

SIGSEC

Signal Security (SIGSEC) Specialist Basic Technical
AR-1717-0054

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Flight Simulator (2B24) Specialist
AR-1606-0006
Flight Simulator (UH1FS) Specialist
AR-1606-0006
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AR-1715-0397

Improved Hawk Radar Signal Simulator Station Repairer
AR-1715-0397
Radar Engagement Simulator AN/TPQ-29
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Single Channel Radio Team Chief
AR-1404-0038

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Defense Small Purchase Basic
AR-1408-0187
Defense Small Purchase Basic by Correspondence
AR-1408-0199
Executive Small Purchase
AR-1408-0188
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AR-2201-0341
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AR-2201-0096
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AR-1408-0187
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AR-0802-0027

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AR-1704-0044
Smoke Operations Specialist (Transition)
AR-1704-0046

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Sniper
AR-2201-0442

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AR-1715-0711

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Space Collection Operations
AR-2201-0203

Special

AN/TSQ-133 Special Purpose Receiving System (Tracechain) Maintenance
AR-1715-0733
Special Electronic Devices Repair
AR-1715-0779
Special Operations Medical Sergeant
AR-0709-0050
Special Purpose Equipment Repairer Noncommissioned Officer (NCO) Advanced
AR-1710-0133
Special Reaction Team Training
AR-1728-0072
Tracechain AN/FSQ-133 Special Purpose Receiving System Maintenance
AR-1715-0733

Special Forces

Special Forces Assistant Operations and Intelligence Sergeant
AR-1606-0210
Special Forces Assistant Operations and Intelligence Sergeant Reserve Component Phase 2
AR-1606-0211

Special Forces Assistant Operations and Intelligence Sergeant Reserve Component Phase 4 AR-1606-0212

Special Forces Base Communications Operator AR-1715-0060

Special Forces Base Communications Systems AR-1715-0060

Special Forces Burst Communications System Maintenance AR-1715-0825

Special Forces Combat Diver Qualification AR-0803-0006

Special Forces Combat Diving Supervisor AR-1606-0177

Special Forces Communications Sergeant AR-1715-0824

Special Forces Communications Sergeant Advanced Noncommissioned Officer (NCO) AR-1404-0041

Special Forces Communications Sergeant Advanced Noncommissioned Officer (NCO) Reserve Component Phase 2 AR-1404-0042

Special Forces Detachment Officer AR-2201-0346

Special Forces Detachment Officer Qualification Reserve Component Phase 4 AR-2201-0347

Special Forces Diving Medical Technician AR-0709-0039

Special Forces Diving Supervisor AR-1606-0144

Special Forces Engineer Sergeant AR-1710-0151

Special Forces Engineer Sergeant Advanced Noncommissioned Officer (NCO) AR-2201-0404

Special Forces Engineer Sergeant Advanced Noncommissioned Officer (NCO) Reserve Component Phase 2 AR-2201-0403

Special Forces Medical Sergeant AR-0703-0025

Special Forces Medical Sergeant Advanced Noncommissioned Officer (NCO) AR-0702-0014

Special Forces Medical Sergeant Advanced Noncommissioned Officer (NCO) Reserve Component Phase 2 AR-0702-0015

Special Forces Medical Sergeant, Phases 1 and 3 AR-0703-0025

Special Forces Officer AR-2201-0162

Special Forces Officer (Modified) AR-2201-0162

Special Forces Operations and Intelligence AR-1606-0176

Special Forces Operations and Intelligence Resident/Nonresident Phase 4 AR-1511-0019

Special Forces Technician Senior Warrant Officer AR-1408-0162

Special Forces Technician Warrant Officer Basic AR-1406-0096

Special Forces Technician Warrant Officer Technical/Tactical Certification AR-1406-0096

Special Forces Weapons Sergeant AR-2201-0350

Special Forces Weapons Sergeant Advanced Noncommissioned Officer (NCO) AR-2201-0401

Special Forces Weapons Sergeant Advanced Noncommissioned Officer (NCO) Reserve Component Phase 2 AR-2201-0402

Special Operations

Advanced Special Operations Techniques AR-1408-0163

Special Operations Communications Sergeant Reserve Component Phase 4 AR-1715-0826

Special Operations Engineer Sergeant Reserve Component Phase 4 AR-1710-0152

Special Operations Forces Pre-Command AR-2201-0400

Special Operations Medical Sergeant Phase 1A AR-0709-0050

Special Operations Qualification Reserve Component Phase 2 AR-0803-0008

Special Operations Qualifications Reserve Component Phase 6 AR-0803-0009

Special Operations Reconnaissance AR-1511-0018

Special Operations Staff Officer AR-1512-0019

Special Operations Target Interdiction AR-2201-0349

Special Operations Technician Senior Warrant Officer AR-1408-0162

Special Operations Technician Warrant Officer Technical Certification AR-1406-0096

Special Operations Training AR-0803-0013

Special Operations Weapons Sergeant Reserve Component Phase 4 AR-2201-0348

Specification

Defense Specification Management AR-1408-0035

Staff

Army Medical Department Staff Development (Reserve Component) (Nonresident/Resident) AR-0799-0017

Basic Environmental Staff AR-0707-0011

Battle Staff Noncommissioned Officer (NCO) AR-2201-0412

Joint Operations Staff Planning AR-1512-0023

Joint Psychological Operations Staff Planning AR-1512-0023

Manprint Staff Officers AR-0326-0045

Network Management/Information Systems Staff Officer AR-1402-0154

Special Operations Staff Officer AR-1512-0019

Staff and Parish Development Consultant AR-1406-0085

Staff/Support Maintenance Technician Senior Warrant Officer AR-1717-0095

Standard

Commodity Command Standard System Functional by Correspondence AR-1405-0231

Direct Support Unit Standard Supply System AR-1405-0176

Standard Army Ammunition System (SAAS) Manager Training AR-1405-0160

Standard Army Intermediate Level Supply (SAIL) AR-1405-0169

Standard Army Intermediate Level Supply (SAILS) ABX AR-1405-0169

Standard Depot System Depot Maintenance Workloading AR-1405-0220

Standard Depot System Depot Physical Inventory Management AR-1405-0219

Standard Port System-Enhanced/Decentralized Automated Service Support System (DASPE-E/DAS3) AR-1402-0095

Standard Property Book System Functional AR-1405-0165

Standard Property Book System Redesigned AR-1405-0166

Standard Property Book System-Redesigned-Installation/Table of Distribution and Allowances AR-1405-0166

Standards

Cost Accounting Standards Workshop AR-1401-0021

Department of Defense (DOD) Cost Accounting Standards Workshop AR-1401-0021

Station

Hawk Radar Signal Simulator Station Repairer AR-1715-0397

Improved Hawk Radar Signal Simulator Station Repairer AR-1715-0397

Military Enlistment Processing Station (MEPS) Guidance Counselor National Guard (ARNG) AR-2201-0352

Station Commander AR-1406-0163

Statistics

Basic Statistics for Logistics Management AR-1115-0010

Sterile

Pharmacy Sterile Products AR-0709-0017

AR-0709-0053

Still

Still Documentation Specialist Basic Noncommissioned Officer (NCO) AR-1709-0011

Stinger

Man Portable Air Defense (MANPAD) Crewmember (Stinger) Reserve Component AR-1715-0800

Redeye and Stinger Gunner/Operator AR-1715-0576

Stinger Gunner Operator (USMC) AR-1715-0576

Stock

Ammunition Stock Control and Accounting Specialist
AR-1405-0155

Ammunition Stock Control and Accounting Specialist Basic Noncommissioned Officer (NCO)
AR-1402-0086
AR-1402-0143

Ammunition Stock Control and Accounting Specialist Basic Noncommissioned Officer (NCO) Reserve
AR-2201-0397

Ammunition Stock Control and Accounting Specialist Basic Technical
AR-1402-0086

Ammunition Stock Control and Accounting Specialist Reserve
AR-1405-0229

Storage

Ammunition Storage
AR-2201-0022

Electronic Warfare (EW)/Intercept Strategic Signal Processing and Storage Subsystem Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0719

Electronic Warfare (EW)/Intercept Strategic Signal Processing/Storage Subsystem Repairer
AR-1715-0718

Materiel Storage and Handling Specialist Advanced Individual Training
AR-1405-0179

Materiel Storage and Handling Specialist Advanced Noncommissioned Officer (NCO)
AR-1405-0163

Materiel Storage and Handling Specialist Basic Noncommissioned Officer (NCO)
AR-1405-0164

Multiple Virtual Storage (MVS) 3 Advanced Concepts
AR-1402-0105

Multiple Virtual Storage (MVS) 5 Concepts and Operations
AR-1402-0103

Storage Supplyman Noncommissioned Officer (NCO) Advanced
AR-1405-0110

Strategic

Department of Defense Strategic Debriefing (Department of Defense Strategic Debriefing and Interrogation Training)
AR-1728-0056

Electronic Warfare (EW)/Intercept Strategic Receiving Subsystem Repairer
AR-1715-0827

Electronic Warfare (EW)/Intercept Strategic Receiving Subsystem Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0717

Electronic Warfare (EW)/Intercept Strategic Signal Processing and Storage Subsystem Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0719

Electronic Warfare (EW)/Intercept Strategic Signal Processing/Storage Subsystem Repairer
AR-1715-0718

Electronic Warfare (EW)/Intercept Strategic Systems Analyst and Command and Control Subsystems Repairer
AR-1715-0720

Electronic Warfare (EW)/Intercept Strategic Systems Analyst and Command and Control

Subsystems Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0721

Strategic Deployment Planning
AR-0419-0056

Strategic Microwave Systems Repairer
AR-1715-0672

Strategic Microwave Systems Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0678

Strategic Mobility Planning
AR-0419-0027

Strategic Reconnaissance
AR-1511-0018

Strategic Systems Repairer
AR-1715-0889

Strategic Systems Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0888

Strategy

Defense Strategy by Correspondence
AR-1511-0023

Structural

Aircraft Structural Repairer
AR-1704-0207

Aircraft Structural Repairer Basic Noncommissioned Officer (NCO)
AR-1704-0109

Aircraft Structural Repairer Basic Technical
AR-1704-0109

Aircraft Structural Repairer Supervisor Basic Noncommissioned Officer (NCO)
AR-1704-0184

Subscriber

Advanced Mobile Subscriber Equipment (MSE) Node Switch/Large Extension Node Switch Operator
AR-1715-0872

Digital Subscriber Terminal Equipment (DSTE) Repairer
AR-1715-0253

Mobile Subscriber Equipment (MSE) Central Office Repairer
AR-1715-0876

Mobile Subscriber Equipment (MSE) Network Switching System Operator
AR-1715-0886

Mobile Subscriber Equipment (MSE) Network Switching System Operator Basic Noncommissioned Officer (NCO)
AR-1404-0044

Mobile Subscriber Equipment (MSE) System Planner/System Control Center Operator
AR-1715-0875

Mobile Subscriber Equipment (MSE) Systems Maintainer
AR-1715-0873
AR-1715-0885

Mobile Subscriber Equipment (MSE) Transmission System Operator
AR-1715-0884

Subsistence

Quality Audit of Subsistence
AR-0709-0042

Subsistence Officer
AR-1729-0031

Subsistence Supply Specialist
AR-1405-0183

Subsistence Supply Specialist Basic Noncommissioned Officer (NCO)
AR-1405-0174

Troop Subsistence Activity Management
AR-1405-0180

Subsystems

Air Traffic Control Systems, Subsystems, and Equipment Repairer
AR-1715-0787

Tactical Air Traffic Control Systems, Subsystems, and Equipment Repairer
AR-1715-0787

Summer

Mountaineering Summer
AR-0804-0004

Supervisor

Avionic Maintenance Supervisor Advanced Noncommissioned Officer (NCO) Reserve
AR-1715-0966

Maintenance Supervisor
AR-1710-0142

Postal Supervisor
AR-1404-0040

Signal Support Systems Supervisor Advanced Noncommissioned Officer (NCO)
AR-1715-0920

Tactical Satellite/Microwave Supervisor Basic Noncommissioned Officer (NCO)
AR-1715-0682

Technical Engineering Supervisor Basic Noncommissioned Officer (NCO)
AR-1601-0090

Supply

Battalion Supply
AR-1406-0137

Decentralized Automated Service Support System (DAS3) and The Direct Support Unit Standard Supply System (DS4) Operator
AR-1402-0102

Depot Supply Operations Management
AR-0326-0051

Depot Supply Operations Management by Correspondence
AR-0326-0052

Direct Support Unit Standard Supply System
AR-1405-0176

Direct Support Unit Standard Supply System (DS4)
AR-1405-0176

Facilities Engineering Supply System Management
AR-1405-0145

General Supply Technician Warrant Officer Technical Certification
AR-1405-0170

Logistics Assistance Program Supply Support
AR-1405-0223

Medical Supply Procedures
AR-1405-0024

Medical Supply Specialist
AR-1405-0024
AR-1405-0241

Medical Supply Specialist (Basic) Reserve Component, Phase 2
AR-1405-0202

Medical Supply Specialist Reserve
AR-1405-0202

Petroleum Supply Reserve Specialist Reserve Component
AR-1601-0076

Petroleum Supply Specialist
AR-1601-0075

Petroleum Supply Specialist Basic Noncommissioned Officer (NCO)
AR-1601-0072

Petroleum Supply Specialist Basic Noncommissioned Petroleum Supply Specialist Basic Noncommissioned Officer (NCO)
AR-1601-0072

Reserve Supply	AR-1405-0200	Direct Support Unit Standard Supply System	AR-1405-0176	Tactical Fire (TACFIRE) Direction System	
Senior Supply/Services Sergeant	AR-1405-0173	Direct Support Unit Standard Supply System (DS4)	AR-1405-0176	Fire Support	AR-1402-0074
Standard Army Intermediate Level Supply (SAIL)	AR-1405-0169	Field Artillery Cannon Fire Support Specialist Basic Noncommissioned Officer (NCO)	AR-2201-0256	Tactical Fire (TACFIRE) Fire Support Element	AR-1402-0124
Standard Army Intermediate Level Supply (SAILS) ABX	AR-1405-0169	Field Artillery Fire Support Specialist	AR-1715-0846	Tactical Fire (TACFIRE) Fire Support Leader	AR-1402-0162
Subsistence Supply Specialist	AR-1405-0183	Field Support Advanced Noncommissioned Officer (NCO)	AR-2201-0363	Tactical Fire (TACFIRE) Support Element Liaison Officer	AR-1402-0071
Subsistence Supply Specialist Basic Noncommissioned Officer (NCO)	AR-1405-0174	Fire Support Sergeant Advanced Noncommissioned Officer (NCO)	AR-2201-0363	TMDE Maintenance Support Specialist Advanced Noncommissioned Officer (NCO)	AR-1402-0133
Supply Accounting Management Information System	AR-1402-0136	Fire Support Specialist	AR-1715-0846	TRI-TAC COMSEC Equipment Limited Maintenance (Direct Support)	AR-1715-0617
Supply and Services Management Officer	AR-1405-0177	Fire Support Specialist Advanced Noncommissioned Officer (NCO)	AR-2201-0363		
Supply Noncommissioned Officer (NCO)	AR-1405-0204	Hawk Missile Support Repair Technician (DS/GS)	AR-1715-0647	Surface	
Supply Support Activity (SSA) Management	AR-1405-0194	Integrated Logistics Support Advanced	AR-0326-0055	Surface Deployment Planning	AR-0419-0053
Supply Systems Technician Quartermaster Warrant Officer Technical/Tactical Certification	AR-1405-0188	Land Combat Support System Test Specialist	AR-1715-0652	Surgeon	
Supply Systems Technician Quartermaster Warrant Officer Technical/Tactical Certification Reserve	AR-1405-0190	Land Combat Support System Test Specialist Basic Noncommissioned Officer (NCO)	AR-1715-0652	Army Flight Surgeon	AR-0799-0022
Supply Systems Technician Warrant Officer Basic	AR-1405-0188	Logistics Assistance Program Supply Support	AR-1405-0223	Army Flight Surgeon Primary	AR-0799-0022
Supply Systems Technician Warrant Officer Basic, Reserve	AR-1405-0190	Logistics Support Analysis	AR-0326-0056	Surgical	
Unit Supply Specialist	AR-1405-0061	OH-58D Field Artillery Aerial Fire Support Observer	AR-1402-0112	Nurse Practitioner Adult Medical-Surgical Health Care	AR-0703-0020
Unit Supply Specialist Advanced Individual Training	AR-1405-0061	OH-58D Field Artillery Instructor Pilot Fire Support	AR-2201-0377	Surveillance	
Unit Supply Specialist Advanced Noncommissioned Officer (NCO)	AR-1405-0162	Pershing II Support Repair Technician (DG/GS)	AR-1715-0644	Ground Surveillance System Operator Basic Noncommissioned Officer (NCO)	AR-1606-0207
Unit Supply Specialist Basic Noncommissioned Officer (NCO)	AR-1405-0233	Pre-Command Phase III Combat Service Support Missile and Munitions	AR-1408-0123	Ground Surveillance System Supervisor	AR-1606-0207
Unit/Organization Supply Procedures	AR-1403-0011	Signal Support Systems Specialist	AR-1715-0928	Ground Surveillance Systems Operator (Ground Surveillance Radar Crewman)	AR-1715-0178
Supplyman		Signal Support Systems Specialist Basic Noncommissioned Officer (NCO)	AR-1715-0917	Joint Surveillance Target Attack Radar System (JStars) Ground Station Module (GSM) Operator/Supervisor	AR-1715-0870
Storage Supplyman Noncommissioned Officer (NCO) Advanced	AR-1405-0110	Signal Support Systems Supervisor Advanced Noncommissioned Officer (NCO)	AR-1715-0920	Target Acquisition/Surveillance Radar Repairer	AR-1715-0839
Support		Staff/Support Maintenance Technician Senior Warrant Officer	AR-1717-0095	Target Acquisition/Surveillance Radar Repairer Basic Noncommissioned Officer (NCO)	AR-1408-0170
Automated Fire Support Leader	AR-2201-0380	Supply Support Activity (SSA) Management	AR-1405-0194	Technical Surveillance Countermeasures, Phase 1	AR-1715-0711
Aviation Life Support Equipment Technician	AR-1408-0212	Support Maintenance Technician Senior Warrant Officer Reserve Component, Phases 2 and 4	AR-1717-0104	Survey	
Aviation Life Support Equipment Technician (AIsET), Reserve Component	AR-1408-0211	Support Operations, Phase 2	AR-2201-0414	Field Artillery Target Acquisition and Field Artillery Survey Officer	AR-1601-0054
Combat Services Support Pre-Command	AR-1405-0140	TACFIRE Fire Direction System Fire Support with Fire Support Element Module	AR-1402-0074	Surveyor	
Decentralized Automated Service Support System (DAS3)	AR-1402-0059	Tactical Army Combat Service Support Computer System (TACCS) Programming	AR-1402-0109	Construction Surveyor	AR-1601-0087
Decentralized Automated Service Support System (DAS3) and The Direct Support Unit Standard Supply System (DS4) Operator	AR-1402-0102	Tactical Army Combat Service Support Computer System/Standard Army Maintenance System (TACCS/SAMS)	AR-1402-0101	Field Artillery Surveyor	AR-1601-0079
Defense Basic Logistic Support Analysis	AR-0326-0056			Field Artillery Surveyor Advanced Noncommissioned Officer (NCO)	AR-2201-0293
				Field Artillery Surveyor Basic Noncommissioned Officer (NCO)	AR-2201-0376
				Field Artillery Surveyor Noncommissioned Officer (NCO) Advanced	AR-2201-0293

Survival

- Survival, Evasion, Resistance, and Escape (SERE) High Risk
AR-0803-0007
- Survival, Evasion, Resistance, and Escape (SERE) Instructor Qualification
AR-0803-0015

Switch

- Advanced Mobile Subscriber Equipment (MSE) Node Switch/Large Extension Node Switch Operator
AR-1715-0872

Switching

- Automatic Message Switching Center Operations
AR-1402-0078
- Automatic Message Switching Central (AN/TYC-39)
AR-1402-0078
- Automatic Message Switching Central AN/TYC-39(V)
AR-1402-0078
- Electronic Switching System Operator
AR-1715-0886
- Electronic Switching Systems Operator/Maintainer
AR-1404-0044
- Electronic Switching Systems Technical Manager
AR-1715-0598
- Mobile Subscriber Equipment (MSE) Network Switching System Operator
AR-1715-0886
- Mobile Subscriber Equipment (MSE) Network Switching System Operator Basic Noncommissioned Officer (NCO)
AR-1404-0044
- Switching Central Repairer
AR-1715-0670
- Switching Systems Operator
AR-1714-0027
- Switching Systems Operator Basic Noncommissioned Officer (NCO)
AR-1714-0028
- Transportable Automatic Switching Systems Operator/Maintainer
AR-1715-0668
- Transportable Automatic Switching Systems Operator/Maintainer Basic Noncommissioned Officer (NCO)
AR-1715-0855
- Transportable Automatic Switching Systems Operator/Maintainer Reserve Component
AR-1715-0916

System

- Avenger System Crewmember
AR-1715-0937
- Avenger System Crewmember (Transition)
AR-1715-0938
- Early Warning System Operator
AR-1715-0953
- Hawk Missile System Crewmember
AR-1715-0939
- Hawk Missile System Crewmember (Transition)
AR-1715-0954
- Hawk Missile System Mechanic (Transition)
AR-1715-0944
- Hawk Missile System with Computer Upgrade (Phase 2 A) (Operator)
AR-1715-0952
- Hawk Missile System with Computer Upgrade (Phase 3 A) Operator
AR-1715-0958

Systems

- Advanced Course in Artificial Intelligence Theory and Expert Systems Building
AR-1402-0097
- Air Traffic Control Systems, Subsystems, and Equipment Repairer
AR-1715-0787
- Business Systems Analysis
AR-1402-0048
- Expert Systems Architecture and Object-Oriented Programming
AR-1402-0098
- Knowledge Engineering and Basic Expert Systems Building
AR-1402-0099
- Microwave Systems Operator Maintenance Basic Noncommissioned Officer (NCO)
AR-1715-0932
- Operating Systems
AR-1402-0045
- Operations Research Systems Analysis Military Applications (ORSA MAC), Phases 1 and 2
AR-1402-0164
- Shorad Systems Technician Warrant Officer Technical/Tactical Certification
AR-1715-0962
- Shorad Systems Technician Warrant Officer Technical/Tactical Certification, Phase 2
AR-1715-0948
- Signal Support Systems Supervisor
AR-1715-0920
- Advanced Noncommissioned Officer (NCO)
AR-1402-0108
- Structured Systems Analysis and Design
AR-1402-0115
- Systems Automation
AR-1404-0045
- Systems Automation 2
AR-1715-0787
- Tactical Air Traffic Control Systems, Subsystems, and Equipment Repairer
AR-1715-0787

T-42

- T-42 Instructor Pilot (IP) Methods of Instruction
AR-1406-0072

TACCS

- Tactical Army Combat Service Support Computer System (TACCS) Programming
AR-1402-0109
- Tactical Army Combat Service Support Computer System/Standard Army Maintenance System (TACCS/SAMS)
AR-1402-0101

TACFIRE

- Field Artillery Tactical Fire (TACFIRE) Noncommissioned Officer (NCO) Advanced
AR-2201-0369
- TACFIRE Fire Direction System Fire Support with Fire Support Element Module
AR-1402-0074
- Tactical FIRE (TACFIRE) Battalion Fire Direction Officer
AR-1402-0083
- Tactical Fire (TACFIRE) Direction System Fire Support
AR-1402-0074
- Tactical Fire (TACFIRE) Divarty, Field Artillery Brigade, and Corps Artillery Fire Control Element
AR-1402-0084
- Tactical Fire (TACFIRE) Fire Support Element
AR-1402-0124

Tactical Fire (TACFIRE) Fire Support Leader

AR-1402-0162

Tactical Fire (TACFIRE) Operation Specialist Advanced Noncommissioned Officer (NCO) Advanced

AR-2201-0369

Tactical Fire (TACFIRE) Operations SpecialistAR-1402-0125
AR-1715-0832**Tactical Fire (TACFIRE) Operations Specialist Basic Noncommissioned Officer (NCO)**

AR-1715-0638

Tactical Fire (TACFIRE) Operations Specialist Basic Technical

AR-1715-0638

Tactical Fire (TACFIRE) Support Element Liaison Officer

AR-1402-0071

Tactical Fire (TACFIRE) Tactical Operations CenterAR-1402-0072
AR-1402-0123**Tactical**

- Airdrop Systems Technician Senior Warrant Officer Training (Technical/Tactical Certification)
AR-1408-0156
- Airdrop Systems Technician Warrant Officer Technical/Tactical Certification
AR-1733-0010
- All-Source Intelligence Technician Warrant Officer Technical/Tactical Certification, Phase 2
AR-2201-0384
- Allied Trades Technician Warrant Officer Technical/Tactical Certification
AR-1710-0115
- Ammunition Technician Warrant Officer Technical and Tactical Certification Reserve (Phase 2 and 4)
AR-2201-0394
- Armament Repair Technician Warrant Officer Technical/Tactical Certification
AR-1717-0096
- Armament Repair Technician Warrant Officer Technical/Tactical Certification, Phase 2 and 4
AR-1717-0103
- Aviation Maintenance Warrant Officer Technical/Tactical Certification
AR-1704-0199
- Bandmaster/Warrant Officer Technical and Tactical Certification
AR-1205-0010
- Communications Security (COMSEC) Technician Warrant Officer Technical and Tactical Certification
AR-1402-0132
- Counter Drug Field Tactical Police Operations
AR-1728-0096
- Criminal Investigation Division (CID) Warrant Officer Technical and Tactical Certification
AR-1728-0097
- Criminal Investigation Division (CID) Warrant Officer Technical and Tactical Certification Reserve Phase 2
AR-1728-0098
- Data Processing Technician Warrant Officer Technical and Tactical Certification
AR-1402-0157

Electronic Warfare (EW)/Intercept Tactical Systems Repairer		Military Personnel Technician Warrant Officer Technical and Tactical Certification Reserve Component Phase 2		Tactical Communications Officer and Chief	
	AR-1715-0722		AR-1406-0152	Tactical Communications Systems Operator/Mechanic	AR-1715-0795
Electronic Warfare (EW)/Intercept Tactical Systems Repairer Basic Noncommissioned Officer (NCO)		Military Personnel Technician Warrant Officer Technical/Tactical Certification	AR-1406-0151		AR-1715-0091
	AR-1715-0723	Morse Intercept Technician Warrant Officer Technical/Tactical Certification Phase 2	AR-1408-0133	Tactical FIRE (TACFIRE) Battalion Fire Direction Officer	
Engineer Equipment Repair Technician Warrant Officer Technical Tactical Certification Reserve	AR-1601-0093				AR-1402-0083
Enhanced Tactical Users Terminal Operator/Analyst	AR-1402-0142	Nuclear Weapons Technician Warrant Officer Technical and Tactical Certification	AR-1715-0750	Tactical Fire (TACFIRE) Direction System Fire Support	
Field Artillery Tactical Fire (TACFIRE) Noncommissioned Officer (NCO) Advanced	AR-2201-0369	Nuclear Weapons Technician Warrant Officer Technical/Tactical Certification	AR-1715-0750		AR-1402-0074
Field Artillery Tactical Fire Direction System Repairer	AR-1402-0161	Property Accounting Technician Quartermaster Warrant Officer Technical/Tactical Certification	AR-1405-0185	Tactical Fire (TACFIRE) Divarty, Field Artillery Brigade, and Corps Artillery Fire Control Element	
	AR-1715-0936				AR-1402-0084
Food Service Technician Warrant Officer Technical/Tactical Certification	AR-1729-0034	Property Accounting Technician Warrant Officer Technical/Tactical Certification Reserve	AR-1405-0186	Tactical Fire (TACFIRE) Fire Support Element	AR-1402-0124
				Tactical Fire (TACFIRE) Fire Support Leader	
Food Service Technician Warrant Officer Technical/Tactical Certification Reserve Component	AR-1729-0037	Property Book Technician Quartermaster Warrant Officer Technical/Tactical Certification	AR-1405-0185		AR-1402-0162
				Tactical Fire (TACFIRE) Operation Specialist Advanced Noncommissioned Officer (NCO) Advanced	AR-2201-0369
Hawk Missile System Technician Warrant Officer Technical/Tactical Certification	AR-1715-0947	Property Book Technician Warrant Officer Technical/Tactical Certification Reserve	AR-1405-0186	Tactical Fire (TACFIRE) Operations Specialist	AR-1402-0125
Imagery Intelligence Technician Warrant Officer Technical/Tactical Certification	AR-1606-0200	Repair Parts Technician Quartermaster Warrant Officer Technical/Tactical Certification	AR-1405-0188		AR-1715-0832
				Tactical Fire (TACFIRE) Operations Specialist Basic Noncommissioned Officer (NCO)	AR-1715-0638
Intelligence/Electronic Warfare (EW) Equipment Technician Warrant Officer Technical/Tactical Certification Phase 2	AR-1408-0194	Repair Parts Technician Quartermaster Warrant Officer Technical/Tactical Certification Reserve Component	AR-1405-0190	Tactical Fire (TACFIRE) Operations Specialist Basic Technical	AR-1715-0638
Intelligence/Electronic Warfare Equipment Technician Warrant Officer Technical/Tactical Certification (Reserve Component) Phases 2 and 3	AR-1408-0207			Tactical Fire (TACFIRE) Support Element Liaison Officer	AR-1402-0071
Interrogation Technical Warrant Officer Technical/Tactical Certification	AR-1606-0199	Repair Shop Technician, Warrant Officer Technical/Tactical Certification, Phases 2 and 4	AR-1717-0102	Tactical Fire (TACFIRE) Tactical Operations Center	AR-1402-0072
Joint Tactical Automated Switching Network Supervisor	AR-1715-0605	Signal Systems Maintenance Technician Warrant Officer Technical and Tactical Certification	AR-1402-0131		AR-1402-0123
Joint Tactical Communications (TRI-TAC) Operations	AR-1715-0605	Supply Systems Technician Quartermaster Warrant Officer Technical/Tactical Certification	AR-1405-0188	Tactical Satellite/Microwave Repairer	AR-1715-0671
Joint Tactical Communications System Management	AR-1402-0158			Tactical Satellite/Microwave Repairer Transition	AR-1715-0877
Land Combat Missile Systems Technician Warrant Officer Technical and Tactical Certification	AR-1715-0899	Supply Systems Technician Quartermaster Warrant Officer Technical/Tactical Certification Reserve	AR-1405-0190	Tactical Satellite/Microwave Supervisor Basic Noncommissioned Officer (NCO)	AR-1715-0682
				Tactical Satellite/Microwave Systems Operator	AR-1715-0782
Land Combat Missile Systems Technician Warrant Officer Technical and Tactical Certification Reserve (Phases 2 and 4)	AR-1715-0894	Tactical All-Source Intelligence Officer Force Alignment Plan 3	AR-1728-0087	Tactical Satellite/Microwave Systems Operator Basic Noncommissioned Officer (NCO)	AR-1715-0699
Light Tactical Fire (LTACFIRE) Operator	AR-1402-0163	Tactical Army Combat Service Support Computer System (TACCS) Programming	AR-1402-0109	Tactical Satellite/Microwave Systems Operator Primary Technical	AR-1715-0699
Marine Engineering Officer Warrant Officer Technical/Tactical Certification	AR-1712-0020	Tactical Army Combat Service Support Computer System/Standard Army Maintenance System (TACCS/SAMS)	AR-1402-0101	Tactical Signal Staff Officer	AR-1715-0700
MFAD Technician Warrant Officer Technical/Tactical Certification	AR-1715-0897	Tactical Automated Network Technician Warrant Officer Technical and Tactical Certification	AR-1402-0130	Tactical Systems Repairer Basic Noncommissioned Officer (NCO)	AR-1715-0723
Military Intelligence Warrant Officer Technical/Tactical Certification Common Core, Phase 1	AR-1402-0128	Tactical Communications Chief	AR-1715-0492	Tactical Telecommunications Center Operator Automatic Data Telecommunications Center Operator	
		Tactical Communications Chief Basic Noncommissioned Officer (NCO)	AR-1715-0492		AR-1406-0129
		Tactical Communications Chief Basic Technical	AR-1715-0915	Tactical Telecommunications Center Operator Basic Noncommissioned Officer (NCO) Automatic Data	AR-1715-0881
			AR-1715-0492	Tactical Telecommunications Center Supervisor	AR-1715-0794

Tactical Transport Helicopter Technical Inspector	AR-1704-0162	M1 Abrams Tank System Mechanic Basic Noncommissioned Officer (NCO)	AR-1703-0040	Airdrop Systems Technician Senior Warrant Officer Training (Technical/Tactical Certification)	AR-1408-0156
Tactical Wire Operations Specialist	AR-1715-0434	M1 Abrams Tank System Mechanic Non-commissioned Officer (NCO) Advanced	AR-1710-0131	Airdrop Systems Technician Warrant Officer Technical/Tactical Certification	AR-1733-0010
Test Measurement and Diagnostic Equipment (TMDE) Maintenance Support Technician Warrant Officer Technical and Tactical Certification	AR-1717-0108	M1 Abrams Tank Systems Mechanic	AR-1704-0142	All-Source Intelligence Technician Warrant Officer Technical/Tactical Certification, Phase 2	AR-2201-0384
Traffic Analysis Technician Warrant Officer Technical/Tactical Certification (Reserve Component) Phases 1 and 2	AR-1404-0043	M1 Abrams Tank Turret Mechanic	AR-1703-0050	Allied Trades Technician Warrant Officer Technical/Tactical Certification	AR-1710-0115
UH-60 Tactical Transport Helicopter Basic Noncommissioned Officer (NCO)	AR-1704-0150	M1 Abrams Tank Turret Repair	AR-1710-0104	Ammunition Technician Warrant Officer Technical and Tactical Certification Reserve (Phase 2 and 4)	AR-2201-0394
UH-60 Tactical Transport Helicopter Repairer	AR-1704-0204	M1 Abrams Tank Vehicle Repairer	AR-1710-0113	Armament Repair Technician Warrant Officer Technical/Tactical Certification	AR-1717-0096
Unit Maintenance Technician (Light) Warrant Officer Technical/Tactical Certification	AR-1710-0116	M60A1/A3 Tank Recovery Specialist	AR-1703-0051	Armament Repair Technician Warrant Officer Technical/Tactical Certification, Phase 2 and 4	AR-1717-0103
Unit Maintenance Technician (Light) Warrant Officer Technical/Tactical Certification Reserve Component Phases 2 and 4	AR-1717-0097	M60A1/A3 Tank Systems Mechanic	AR-1703-0042	Bandmaster/Warrant Officer Technical and Tactical Certification	AR-1205-0010
Utility/Tactical Transport Helicopter Repairer Supervisor Advanced Noncommissioned Officer (NCO)	AR-1704-0164	M60A3 Tank System Mechanic Individual Ready Reserve Refresher	AR-1710-0138	Communications Security (COMSEC) Technician Warrant Officer Technical and Tactical Certification	AR-1402-0132
Warrant Officer Technical/Tactical Certification	AR-1710-0115	Tank Turret Repairer (USA/USA-ST)	AR-1710-0114	Communications-Electronics Technician Warrant Officer Technical Certification Reserve Component Phases 2 and 4	AR-1715-0858
Warrant Officer Technical/Tactical Certification Phase 2 350D Imagery Intelligence Technician	AR-1606-0200	Tank Turret Repairer Basic Noncommissioned Officer (NCO)	AR-1710-0109	Criminal Investigation Division (CID) Warrant Officer Technical and Tactical Certification	AR-1728-0097
Warrant Officer Technical/Tactical Certification Phase 2 MOS 351B Counterintelligence Technician	AR-1606-0201	Tank Turret Repairman (USMC)	AR-1710-0114	Criminal Investigation Division (CID) Warrant Officer Technical and Tactical Certification Reserve Phase 2	AR-1728-0098
Warrant Officer Technical/Tactical Certification Phase 2 MOS 351E Interrogation Technician	AR-1606-0199	Target		Data Processing Technician Warrant Officer Technical and Tactical Certification	AR-1402-0157
Warrant Officer Technical/Tactical Certification, Phase 2 350B All Source Intelligence Technician	AR-2201-0384	Field Artillery Target Acquisition and Field Artillery Survey Officer	AR-1601-0054	Electronic Warfare (EW)/Intercept Equipment Repair Technician Warrant Officer Technical Certification	AR-1408-0132
Warrant Officer Technical/Tactical Certification, Phase 2 MOS 350B Order of Battle Technician	AR-2201-0384	Joint Surveillance Target Attack Radar System (JStars) Ground Station Module (GSM) Operator/Supervisor	AR-1715-0870	Emanations Analysis Technician Warrant Officer Technical/Tactical Certification	AR-1408-0136
Tactics		Nuclear and Chemical Target Analysis	AR-0802-0025	Emanations Analysis Technician Warrant Officer Technical/Tactical Certification (WOTTC) - RC, Phases 2 and 3	AR-1408-0205
AH-1 Instructor Pilot Methods of Instruction (MOI) (Contact, Tactics, and Gunnery) (Night Vision Goggle)	AR-1406-0114	Special Operations Target Interdiction	AR-2201-0349	Emitter Location/Identification Technician Warrant Officer Technical Certification	AR-1408-0135
Counter Drug Special Weapons and Tactics	AR-1728-0095	Target Acquisition Radar Technician	AR-1715-0558	Food Service Technician Warrant Officer Technical/Tactical Certification	AR-1729-0037
Tactics Certification	AR-2201-0443	Target Acquisition Radar Technician Warrant Officer Advanced	AR-1402-0111	Food Service Technician Warrant Officer Technical/Tactical Certification Reserve Component	AR-1729-0037
UH-1 Contact, Tactics, Night/Night Vision Goggle (N/NVG) Instructor Pilot Methods of Instruction	AR-1406-0113	Target Acquisition Radar Technician Warrant Officer Technical Certification (Reserve Component)	AR-1715-0840	General Supply Technician Warrant Officer Technical Certification	AR-1405-0170
Tank		Target Acquisition Radar Technician Warrant Officer Technical Certification	AR-1715-0841	Hawk Missile System Technician Warrant Officer Technical/Tactical Certification	AR-1715-0947
M1 Abrams Tank Fire Control Systems Repairer	AR-1710-0101	Target Acquisition Radar Technician-Warrant Officer Technical Certification	AR-1715-0558	Imagery Intelligence Technician Warrant Officer Technical/Tactical Certification	AR-1606-0200
M1 Abrams Tank Recovery Specialist	AR-1710-0135	Target Acquisition/Surveillance Radar Repairer	AR-1715-0839		
		Target Acquisition/Surveillance Radar Repairer Basic Noncommissioned Officer (NCO)	AR-1408-0170		
		Team			
		Special Reaction Team Training Phase 1 and Special Reaction Training Marksman/Observer Phase 2	AR-1728-0093		
		Technical			
		Air Defense Artillery (ADA) Command and Control Systems Technician Warrant Officer Technical Certification	AR-1715-0807		
		Aircraft Armament Technical Inspector	AR-1704-0146		

- Intelligence/Electronic Warfare (EW) Equipment Technician Warrant Officer Technical/Tactical Certification Phase 2
AR-1408-0194
- Intelligence/Electronic Warfare Equipment Technician Warrant Officer Technical/Tactical Certification (Reserve Component) Phases 2 and 3
AR-1408-0207
- Interrogation Technical Warrant Officer Technical/Tactical Certification
AR-1606-0199
- Lance Missile System Technician Warrant Officer Technical Certification
AR-1715-0843
- Land Combat Missile Systems Technician Warrant Officer Technical and Tactical Certification
AR-1715-0899
- Land Combat Missile Systems Technician Warrant Officer Technical and Tactical Certification Reserve (Phases 2 and 4)
AR-1715-0894
- Marine Deck Officer Warrant Officer Technical Certification
AR-1722-0006
- Marine Engineering Officer Warrant Officer Technical Certification
AR-1712-0020
- Marine Engineering Officer Warrant Officer Technical/Tactical Certification
AR-1712-0020
- MFAD Technician Warrant Officer Technical/Tactical Certification
AR-1715-0897
- Military Intelligence Warrant Officer Technical/Tactical Certification Common Core, Phase 1
AR-1402-0128
- Military Personnel Technician Warrant Officer Technical and Tactical Certification Reserve Component Phase 2
AR-1406-0152
- Military Personnel Technician Warrant Officer Technical/Tactical Certification
AR-1406-0151
- Morse Intercept Technician Warrant Officer Technical Certification
AR-1408-0133
- Morse Intercept Technician Warrant Officer Technical/Tactical Certification Phase 2
AR-1408-0133
- Non-Morse Intercept Technician Warrant Officer Technical Certification
AR-1408-0134
- Nuclear Weapons Technician Warrant Officer Technical and Tactical Certification
AR-1715-0750
- Nuclear Weapons Technician Warrant Officer Technical/Tactical Certification
AR-1715-0750
- OV-1 Observation Airplane Technical Inspector
AR-1704-0161
- Patriot Missile System Technician Warrant Officer Technical Certification (WOTC) Phases 1 and 2
AR-1715-0797
- Patriot System Technician Warrant Officer Technical/Tactical Certification
AR-1715-0797
- Pershing Missile Systems Technician Warrant Officer Technical Certification
AR-1715-0842
- Property Accounting Technician Quartermaster Warrant Officer Technical/Tactical Certification
AR-1405-0185
- Property Accounting Technician Warrant Officer Technical/Tactical Certification Reserve
AR-1405-0186
- Property Book Technician Quartermaster Warrant Officer Technical/Tactical Certification
AR-1405-0185
- Property Book Technician Warrant Officer Technical/Tactical Certification Reserve
AR-1405-0186
- Repair Parts Technician Quartermaster Warrant Officer Technical/Tactical Certification
AR-1405-0188
- Repair Parts Technician Quartermaster Warrant Officer Technical/Tactical Certification Reserve Component
AR-1405-0190
- Repair Shop Technician, Warrant Officer Technical/Tactical Certification, Phases 2 and 4
AR-1717-0102
- Signal Systems Maintenance Technician Warrant Officer Technical and Tactical Certification
AR-1402-0131
- Special Forces Technician Warrant Officer Technical/Tactical Certification
AR-1406-0096
- Special Operations Technician Warrant Officer Technical Certification
AR-1406-0096
- Supply Systems Technician Quartermaster Warrant Officer Technical/Tactical Certification
AR-1405-0188
- Supply Systems Technician Quartermaster Warrant Officer Technical/Tactical Certification Reserve
AR-1405-0190
- Tactical Automated Network Technician Warrant Officer Technical and Tactical Certification
AR-1402-0130
- Tactical Transport Helicopter Technical Inspector
AR-1704-0162
- Target Acquisition Radar Technician Warrant Officer Technical Certification
AR-1715-0840
- Target Acquisition Radar Technician Warrant Officer Technical Certification (Reserve Component)
AR-1715-0841
- Technical Control and Analysis Center Operator, AN/TSQ-130 (V)
AR-1402-0089
- Technical Drafting Specialist
AR-1713-0009
- Technical Engineering Supervisor Basic Noncommissioned Officer (NCO)
AR-1601-0090
- Technical Escort
AR-0802-0001
- Telecommunications Technician Warrant Officer Technical Certification Reserve Component Phases 2 and 4
AR-1715-0859
- Test Measurement and Diagnostic Equipment (TMDE) Maintenance Support Technician Warrant Officer Technical and Tactical Certification
AR-1717-0108
- Traffic Analysis Technician Warrant Officer Technical Certification
AR-1408-0137
- Traffic Analysis Technician Warrant Officer Technical/Tactical Certification (Reserve Component) Phases 1 and 2
AR-1404-0043
- Traffic Analysis Technician Warrant Officer Technical/Tactical Certification Phase 2
AR-1408-0137
- Unit Maintenance Technician (Light) Warrant Officer Technical/Tactical Certification
AR-1710-0116
- Unit Maintenance Technician (Light) Warrant Officer Technical/Tactical Certification Reserve Component Phases 2 and 4
AR-1717-0097
- Voice Intercept Technician Warrant Officer Technical Certification
AR-1408-0138
- Voice Intercept Technician Warrant Officer Technical/Tactical Certification (WOTTC) - RC Phases 2 and 3
AR-1408-0206
- Voice Intercept Technician Warrant Officer Technical/Tactical Certification Phase 2
AR-1408-0138
- Warrant Officer Technical Certification
AR-1717-0077
- Warrant Officer Technical/Tactical Certification
AR-1710-0115
- Warrant Officer Technical/Tactical Certification Phase 2 350D Imagery Intelligence Technician
AR-1710-0116
- Warrant Officer Technical/Tactical Certification Phase 2 350D Imagery Intelligence Technician
AR-1717-0096
- Warrant Officer Technical/Tactical Certification Phase 2 MOS 351B Counterintelligence Technician
AR-1606-0200
- Warrant Officer Technical/Tactical Certification Phase 2 MOS 351E Interrogation Technician
AR-1606-0201
- Warrant Officer Technical/Tactical Certification, Phase 2 350B All Source Intelligence Technician
AR-1606-0199
- Warrant Officer Technical/Tactical Certification, Phase 2 MOS 350B Order of Battle Technician
AR-2201-0384
- Technician**
- Hawk Missile System Technician Warrant Officer Technical/Tactical Certification
AR-1715-0947
- Hawk Missile System Technician/Master Mechanic (PIP 3) Transition
AR-1715-0955
- Technologies**
- Intelligent Technologies for Operations Research
AR-1402-0137
- Telecommunications**
- Record Telecommunications Center Operator
AR-1404-0046
- Record Telecommunications Center Operator Basic Noncommissioned Officer (NCO)
AR-1404-0047

- Record Telecommunications Operator-Maintainer
AR-1404-0046
- Tactical Telecommunications Center Operator Automatic Data Telecommunications Center Operator
AR-1406-0129
- Tactical Telecommunications Center Operator Basic Noncommissioned Officer (NCO) Automatic Data
AR-1715-0881
- Tactical Telecommunications Center Supervisor
AR-1715-0794
- Telecommunications Center Operator Basic Noncommissioned Officer (NCO)
AR-1715-0881
- Telecommunications Computer Operator-Maintainer
AR-1715-0874
- Telecommunications Computer Operator-Maintainer Basic Noncommissioned Officer (NCO)
AR-1402-0159
- Telecommunications Operations Chief Advanced Noncommissioned Officer (NCO)
AR-1402-0156
- Telecommunications Technician Warrant Officer Advanced
AR-1715-0704
- Telecommunications Technician Warrant Officer Technical Certification Reserve Component Phases 2 and 4
AR-1715-0859
- Telecommunications Terminal Device Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0689
- Telecommunications Terminal Device Repairer Sustainment
AR-1715-0882
- Telemetry**
Telemetry Collection Operations
AR-1715-0729
AR-2201-0203
- Telemetry Internals Analysis
AR-1715-0731
- Telephone**
Automatic Telephone Central AN/TCC-38 Repair
AR-1715-0778
- Automatic Telephone Central AN/TCC-38(V) Repair
AR-1715-0778
- Telephone Central Office Repair Basic Noncommissioned Officer (NCO)
AR-1406-0093
- Telephone Central Office Repairer
AR-1715-0670
- Teletypewriter**
AN/UGC-74 Teletypewriter Direct Support Maintenance
AR-1715-0556
- AN/UGC-74 Teletypewriter General Support Maintenance
AR-1715-0555
- Teletypewriter Equipment Repairer
AR-1715-0848
- Teletypewriter Equipment Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0689
- Television**
Closed Circuit Television
AR-1715-0622
- Television Equipment Specialist
AR-1715-0934
- Terminal**
Enhanced Tactical Users Terminal Operator/Analyst
AR-1402-0142
- Radio Terminal/Repeater Set Operations Maintenance
AR-1715-0762
- Radio Terminal/Repeater Set Operator
AR-1715-0775
- Satellite Communications (SATCOM) Terminal AN/FSC-78/79 and AN/GSC-39
AR-1715-0702
- Satellite Communications (SATCOM) Terminal AN/TSC-54 Repair
AR-1715-0047
- Satellite Communications Terminal AN/TSC-85()/TSC-93() Repairer
AR-1715-0926
- Telecommunications Terminal Device Repairer
AR-1715-0848
- Telecommunications Terminal Device Repairer Basic Noncommissioned Officer (NCO)
AR-1715-0689
- Telecommunications Terminal Device Repairer Sustainment
AR-1715-0882
- Terrain**
Rough Terrain Container Handler Operator
AR-2101-0002
- Rough Terrain Container Handler Operator Reserve
AR-2102-0004
- Terrorism**
Individual Terrorism Awareness
AR-1513-0009
- Intelligence in Combatting Terrorism
AR-1511-0024
- Intelligence in Terrorism Counteraction
AR-1511-0024
- Test**
AH-1S Maintenance Manager/Test Pilot
AR-1717-0083
- AH-64 Maintenance Manager/Test Pilot
AR-1717-0093
- Automatic Test Equipment Operator/Maintainer
AR-1715-0850
- CH-47A/B/C Maintenance Manager/Test Pilot
AR-1717-0084
- CH-47D Maintenance Manager/Test Pilot
AR-1717-0084
- DS/GS Test and Repair Station Maintenance (AH-64)
AR-1715-0878
- DS/GS Test and Repair Station Maintenance (AH-64A)
AR-1715-0596
- Equipment Operation/Maintenance Test Set Guided Missile Set (TOW Ground)
AR-1715-0565
- Equipment Operation/Maintenance Test Set, Guided Missile System (TOW-Ground)
AR-1715-0737
- Land Combat Support System Test Specialist
AR-1715-0652
- Land Combat Support System Test Specialist Basic Noncommissioned Officer (NCO)
AR-1715-0652
- OH-58A/C Maintenance Manager/Test Pilot
AR-1717-0085
- OH-58D Maintenance Manager/Test Pilot
AR-1717-0086
- Skill Qualification Test (SQT) Developer's Workshop
AR-1406-0091
- Test Measurement and Diagnostic Equipment (TMDE) Maintenance Support Technician Senior Warrant Officer
AR-1717-0109
- Test Measurement and Diagnostic Equipment (TMDE) Maintenance Support Technician Warrant Officer Technical and Tactical Certification
AR-1717-0108
- Test, Measurement, and Diagnostic Equipment (TMDE) Advanced Noncommissioned Officer (NCO)
AR-1406-0108
- TOW Field Test Set Repairer
AR-1715-0565
- UH-1 Maintenance Manager/Test Pilot
AR-1717-0082
- UH-60 Maintenance Manager/Test Pilot
AR-1717-0087
- Testing**
BRH Compliance Testing
AR-0705-0008
- Tests**
Design (ISD Phase 2); Develop (ISD Phase 3); Control/Evaluation (ISD Phase 5); Validation Procedures for Course Materials and Tests
AR-1406-0058
- TH-55**
TH-55 Instructor Pilot Methods of Instruction
AR-1406-0075
- Theater**
Veterinary Service in Theater of Operations
AR-1729-0028
- Theory**
Advanced Course in Artificial Intelligence Theory and Expert Systems Building
AR-1402-0097
- Advanced Theory and Expert System Building
AR-1402-0097
- Therapy**
Occupational Therapy Specialist
AR-0704-0004
AR-0704-0011
- Occupational Therapy Specialty
AR-0704-0011
- Physical Therapy Specialist
AR-0704-0001
AR-0704-0012
- Physical Therapy Specialty
AR-0704-0012
- Throat**
Ear, Nose, and Throat Specialist
AR-0709-0002
- Eye, Ear, Nose, and Throat Specialist
AR-0709-0002
- TMDE**
TMDE Maintenance Support Specialist Advanced Noncommissioned Officer (NCO)
AR-1402-0133
- TOE**
Improved TOE Vehicle (ITV) Trainer
AR-2201-0277

- Tool**
Organizational Maintenance Shop (OMS)/
Unit Training Equipment Site (UTES) Tool
and Parts Attendant AR-1405-0210
- Toolmarks**
Firearms and Toolmarks Examiner
AR-1728-0115
- TOW**
Bradley Fighting Vehicle Systems TOW/
Dragon Repairer AR-1710-0108
Equipment Operation/Maintenance Test Set
Guided Missile Set (TOW Ground)
AR-1715-0565
Equipment Operation/Maintenance Test Set,
Guided Missile System (TOW-Ground)
AR-1715-0737
TOW Field Test Set Repairer
AR-1715-0565
TOW Master Gunner AR-2201-0458
TOW/Dragon Repairer AR-1715-0755
- TOW/Dragon**
TOW/Dragon Repairer AR-1715-0299
TOW/Dragon Repairer Basic Technical (BT)
AR-1408-0105
- TOW2**
TOW2 Repairer Transition AR-1715-0754
- Towed**
Towed Artillery Repairman (USMC)
AR-2201-0309
- Tracechain**
AN/TSQ-133 Special Purpose Receiving
System (Tracechain) Maintenance
AR-1715-0733
Tracechain AN/FSQ-133 Special Purpose
Receiving System Maintenance
AR-1715-0733
- Track**
Air Defense Artillery Officer Basic (Forward
Area Air Defense Officer Track)
AR-2201-0427
Air Defense Artillery Officer Basic Hawk
Track (PIP 2) Track AR-2201-0425
Air Defense Artillery Officer Basic Patriot
Track AR-2201-0426
Air Defense Artillery Officer Basic Shorad
Track AR-2201-0427
Recovery Operations (Track)
AR-1710-0139
Recovery Specialist-ASIH8/Track Recovery
Operations (M88A1/M578)
AR-1710-0139
Track Vehicle Mechanic Individual Ready
Reserve Refresher AR-1710-0126
Track Vehicle Mechanic Initial Entry Train-
ing AR-1703-0043
Track Vehicle Recovery Specialist
AR-1710-0124
Track Vehicle Repairer AR-1703-0031
Track Vehicle Repairer Basic Noncommis-
sioned Officer (NCO) AR-1710-0111
- Track Vehicle Repairer Individual Ready
Reserve (63H40) AR-1703-0038
Track Vehicle Repairer Individual Ready
Reserve Refresher AR-1703-0053
AR-1703-0058
Track Vehicle Repairer Noncommissioned
Officer (NCO) Advanced AR-1710-0127
- Tracked**
Engineer Tracked Vehicle Crewman
AR-1710-0175
Engineer Tracked Vehicle Crewman Basic
Noncommissioned Officer (NCO)
AR-1703-0062
- Tracker**
Airborne Laser Tracker (ALT) Maintenance
Repairer AR-1704-0157
- Traffic**
Advanced Traffic Management
AR-0419-0035
Basic Freight Traffic
AR-0419-0044
AR-0419-0057
Defense Advanced Traffic Management
AR-0419-0035
AR-0419-0055
Defense Basic Traffic Management
AR-0419-0044
Installation Traffic Management
AR-0419-0036
AR-0419-0059
Traffic Accident Investigation
AR-1728-0078
Traffic Analysis Technician Warrant Officer
Technical Certification
AR-1408-0137
Traffic Analysis Technician Warrant Officer
Technical/Tactical Certification (Reserve
Component) Phases 1 and 2
AR-1404-0043
Traffic Analysis Technician Warrant Officer
Technical/Tactical Certification Phase 2
AR-1408-0137
Traffic Management Coordinator
AR-0419-0040
AR-0419-0061
Traffic Management Coordinator Advanced
Noncommissioned Officer (NCO)
AR-0419-0050
Traffic Management Coordinator Advanced
Noncommissioned Officer (NCO) Reserve
AR-0419-0060
Traffic Management Coordinator Basic Non-
commissioned (NCO)
AR-0419-0058
Traffic Management Coordinator Basic Non-
commissioned Officer (NCO)
AR-0419-0041
Traffic Management Coordinator Basic Non-
commissioned Officer (NCO) Reserve
AR-0419-0064
Traffic Management Coordinator Basic
Technical AR-0419-0041
Traffic Management Coordinator Noncom-
missioned Officer (NCO) Advanced
AR-0419-0017
Traffic Management Coordinator Primary
Technical AR-0419-0005
- Trailblazer**
AN/TSQ-138 Trailblazer Operator
AR-1715-0789
- Training**
A Systems Approach to Training
AR-1406-0036
Battalion Training Enlisted
AR-1406-0138
Battalion Training Officer
AR-1406-0133
Orientation to Systems Approach to Training
AR-1406-0169
Training Management
AR-1405-0199
- Transmission**
Multichannel Transmission Systems Opera-
tor/Maintainer Basic Noncommissioned
Officer (NCO) AR-1715-0606
- Transport**
Motor Transport Noncommissioned Officer
(NCO) Advanced AR-0419-0024
Motor Transport Operator
AR-1703-0059
Motor Transport Operator Advanced Non-
commissioned Officer (NCO)
AR-0419-0049
Motor Transport Operator Basic Noncom-
missioned Officer (NCO)
AR-0419-0048
Tactical Transport Helicopter Technical
Inspector AR-1704-0162
UH-60 Tactical Transport Helicopter Basic
Noncommissioned Officer (NCO)
AR-1704-0150
UH-60 Tactical Transport Helicopter
Repairer AR-1704-0204
Utility/Tactical Transport Helicopter
Repairer Supervisor Advanced Noncommis-
sioned Officer (NCO) AR-1704-0164
- Transportable**
Transportable Automatic Switching Systems
Operator/Maintainer AR-1715-0668
Transportable Automatic Switching Systems
Operator/Maintainer Basic Noncommis-
sioned Officer (NCO) AR-1715-0855
Transportable Automatic Switching Systems
Operator/Maintainer Reserve Component
AR-1715-0916
Transportable Multichannel Satellite Sys-
tems Operator AR-1715-0929
- Transportation**
Transportation Field Grade Officer Refresher
AR-0419-0043
Transportation Officer (Branch Qualifica-
tion) AR-0419-0062
Transportation Officer Advanced
AR-0419-0054
Transportation Officer Advanced Reserve
Phases II and IV AR-0419-0047
Transportation Officer Basic
AR-0419-0033
Transportation Officer Orientation
AR-0419-0033

Travel

Passenger Travel Specialist
AR-0418-0004
AR-0418-0006
Travel Administration and Entitlements
AR-1401-0049
Travel Clerk
AR-0418-0001

Treatment

Water Treatment Specialist
AR-1732-0010
Water Treatment Specialist Advanced Individual Training
AR-1732-0010
Water Treatment Specialist Basic Noncommissioned Officer (NCO)
AR-1732-0015
Water Treatment Specialist Reserve Component
AR-1732-0014

TRI-TAC

TRI-TAC Communications Security (COMSEC) Equipment Full Maintenance
AR-1715-0852

Troop

Troop Subsistence Activity Management
AR-1405-0180

TSEC/KG-81

COMSEC Equipment TSEC/KG-81 Repair
AR-1715-0594

TSEC/KI-1A

Communications Security (COMSEC) Equipment TSEC/KI-1A Repair
AR-1715-0690

TSEC/ST-58

Communications Security (COMSEC) TSEC/ST-58 Repair
AR-1715-0763

Turbine

Turbine Engine Driven Generator Repairer Basic Noncommissioned Officer (NCO) Common Core
AR-1406-0140
Turbine Engine Driver Generator Repairer
AR-1704-0181

Turret

Bradley Fighting Vehicle System Turret Mechanic
AR-1703-0045
M1 Abrams Tank Turret Mechanic
AR-1703-0050
M1 Abrams Tank Turret Repair
AR-1710-0104
M1 Unit Turret Mechanic
AR-1710-0144
M2/3 Bradley Fighting Vehicle (BFV) Unit Turret Maintenance
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AR-1710-0164

Watercraft Engineer Advanced Noncommis-
sioned Officer (NCO)
AR-1712-0019

Watercraft Engineer Basic Noncommis-
sioned Officer (NCO)
AR-1712-0018

Watercraft Engineer Certification (88L20)
AR-1722-0007

Watercraft Engineer Primary Technical
AR-1712-0002

Watercraft Operation
AR-1722-0002

Watercraft Operator
AR-1722-0002

AR-1722-0008

Watercraft Operator Advanced Noncommis-
sioned Officer (NCO)
AR-0419-0045

Watercraft Operator Basic Noncommis-
sioned Officer (NCO)
AR-2201-0340

Watercraft Operator Certification
AR-1722-0004

Watercraft Operator Primary Technical
AR-1722-0004

Wave

Hawk Fire Control/Continuous (CW) Wave
Radar Repairer Transition
AR-1715-0904

Hawk Fire Control/Continuous Wave (CW)
Radar Repairer
AR-1715-0905

Weapon

Field Artillery Cannon Weapon Systems
Qualification
AR-1715-0633

Weapons

Counter Drug Special Weapons and Tactics
AR-1728-0095

Field Artillery Weapons Maintenance
AR-1710-0156

Heavy Antiarmor Weapons Infantryman
AR-2201-0279

Heavy Antiarmor Weapons Infantryman
Phase 1, Phase 2, Prior Service
AR-2201-0279

Light Weapons Infantryman
AR-2201-0310

Light Weapons Infantryman Phase 1, Phase
2, Prior Service
AR-2201-0310

Nuclear Weapons Maintenance
AR-1715-0204

Nuclear Weapons Maintenance Specialist
AR-1715-0204

Nuclear Weapons Specialist
AR-1715-0204

Nuclear Weapons Specialist Advanced Non-
commissioned Officer (NCO)
AR-2201-0398

Nuclear Weapons Specialist Basic Noncom-
missioned Officer (NCO)
AR-1715-0908

Nuclear Weapons Technician
AR-0802-0019

Nuclear Weapons Technician Senior Warrant
Officer
AR-2201-0391

Nuclear Weapons Technician Warrant
Officer Technical and Tactical Certification
AR-1715-0750

Nuclear Weapons Technician Warrant
Officer Technical/Tactical Certification
AR-1715-0750

Ordnance Officer Advanced Nuclear Weap-
ons Materiel Management
AR-1720-0008

Special Forces Weapons Sergeant
AR-2201-0350

Special Forces Weapons Sergeant Advanced
Noncommissioned Officer (NCO)
AR-2201-0401

Special Forces Weapons Sergeant Advanced
Noncommissioned Officer (NCO) Reserve
Component Phase 2
AR-2201-0402

Special Operations Weapons Sergeant
AR-2201-0350

Special Operations Weapons Sergeant
Reserve Component Phase 4
AR-2201-0348

Wheel

Heavy Wheel Vehicle Mechanic
AR-1703-0037

Heavy Wheel Vehicle Recovery Specialist
AR-1710-0117

Light Wheel Vehicle Mechanic
AR-1703-0028

Light Wheel Vehicle Mechanic (Recovery
Specialist)
AR-1703-0052

Light Wheel Vehicle Mechanic Basic Non-
commissioned Officer (NCO)
AR-1703-0029

Light Wheel Vehicle Mechanic Individual
Ready Reserve Refresher
AR-1710-0121

AR-1710-0122

Light Wheel Vehicle Mechanic Noncommis-
sioned Officer (NCO) Advanced
AR-1710-0132

Recovery Operations (Wheel)

AR-1710-0153

Recovery Specialist ASIH8/Wheel Recov-
ery Operations (M816/936/984F.1)
AR-1710-0153

Refresher Course, Heavy Wheel Vehicle
Mechanic Individual Ready Reserve
AR-1703-0036

Wheel and Power Generation Unit Mainte-
nance
AR-1704-0171

Wheel Vehicle Recovery Specialist
AR-1710-0118

Wheel Vehicle Repairer
AR-1703-0027

Wheel Vehicle Repairer Individual Ready
Reserve (IRR) Refresher (63W20)
AR-1703-0055

Wheel Vehicle Repairer Individual Ready
Reserve Refresher
AR-1710-0119

Wholesale

Ordnance Officer Advanced Wholesale
Maintenance Management
AR-1703-0035

Wideband

Wideband Collection System Maintenance
AR-1715-0891

Wing

Rotary Wing Aviator Refresher Training
AR-1606-0166

Rotary Wing Instrument Flight Examiner
AR-1606-0190

Rotary Wing Qualification
AR-1606-0180

Winter

Mountaineering Winter
AR-0804-0003

Wire

Tactical Wire Operations Specialist
AR-1715-0434

Wire System Installer/Operator
AR-1714-0015

Wire Systems Installer
AR-1714-0015

Wire Systems Installer Basic Noncommis-
sioned Officer (NCO)
AR-1715-0618

Wire Systems Installer Primary Technical
AR-1715-0618

Wire Systems Operator
AR-1714-0027

Wire Systems Operator Primary Technical
AR-1714-0028

Workshop

Cost Accounting Standards Workshop
AR-1401-0021

Instructor Training Workshop
AR-1406-0094

Skill Qualification Test (SQT) Developer's
Workshop
AR-1406-0091

Writing

Effective Military Writing
AR-2201-0254

X-Ray

Medical X-Ray Survey Techniques
AR-0705-0005

Polyphase X-Ray Systems
AR-0705-0007

X-Ray Procedures Basic
AR-0705-0001

X-Ray Specialist

AR-0705-0001

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Course exhibits are grouped by military service, using the following prefixes: **AF:** Air Force; **AR:** Army; **CG:** Coast Guard; **DD:** Department of Defense; **MC:** Marine Corps; and **NV:** Navy.

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104-27N10	AR-1715-0169	12B10-OSUT (ST)	AR-1601-0070	1B-F4/012-F12	AR-2201-0255
104-27N30	AR-1715-0642	12B10-OSUT/030-12B10/		1B-F5/012-F13	AR-2201-0255
104-2885	AR-1715-0566	12B10-OSUT (ST)	AR-1601-0086	1B-F6/012-F14	AR-2201-0255
104-33V10	AR-1715-0869	12C10-OSUT/030-12C10/		1B-F7/012-F15	AR-2201-0255
104-39C10	AR-1715-0839	12C10-OSUT (ST)	AR-1601-0089	1B-F8/012-F16	AR-2201-0255
104-39C30	AR-1408-0170	13B10-OSUT	AR-2201-0372	1B-F9/012-F17	AR-2201-0255
104-ASIW2	AR-1715-0397	150-25L10	AR-1715-0820	2-1-C20	AR-1606-0170
104-ASIX5	AR-1402-0075	150-29G10	AR-1715-0253	2-1-C22	AR-1606-0171
104-F15	AR-1715-0397	150-34F20	AR-1715-0253	2-1-C32	AR-1408-0063
11-E-46	AR-1715-0053	150-39D10	AR-1715-0883	2-17-C25	AR-1710-0136
11-R-293.1	AR-1715-0053	150-39G10	AR-1715-0874	2-17-C26	AR-2201-0321
113-29J10-HTRTS-M	AR-1715-0882	150-39G30	AR-1402-0159	2-33-C32	AR-1408-0162
113-29M10(T)-HTRTS-M	AR-1715-0877	150-74G10	AR-1715-0874	2-33-C42	AR-1406-0127
113-31N10-RC	AR-1715-0879	150-74G30	AR-1402-0159	2-44-C20	AR-2201-0342
113-34L10	AR-1715-0631	150-F13	AR-1715-0768		AR-2201-0424
113-39L10	AR-1715-0831	150-F14	AR-1715-0767	2-44-C20 (14B)	AR-2201-0427
113-39Y10	AR-1715-0936	15E10-OSUT	AR-1715-0486	2-44-C20 (14D)	AR-2201-0425
113-45G10/670-2172	AR-1714-0030	160-29F10	AR-1715-0669	2-44-C20 (14E)	AR-2201-0426
113-ASIL8 (45G)	AR-1710-0101	160-29F10/20/30-T	AR-1715-0681	2-44-C22	AR-1408-0019
11B10-C2-OSUT	AR-2201-0310	160-29F10/20/30-T (32F)	AR-1715-0681		AR-1408-0217
11B10-OSUT	AR-2201-0310	160-29F10/20/30-T (32G)	AR-1715-0687	2-44-C23	AR-1715-0963
11B10-OSUT (ASIC2)	AR-2201-0448	160-29F30	AR-1715-0771	2-44-C26	AR-2201-0423
11C10-OSUT	AR-2201-0311	160-29J10	AR-1715-0848	2-44-C32	AR-1715-0964
11H10-E9-OSUT	AR-2201-0279	160-29J30	AR-1715-0689	2-44-C32-RC	AR-2201-0418
11H10-OSUT	AR-2201-0279	160-29S10	AR-1715-0661	2-55-C22	AR-1704-0208
	AR-2201-0446	160-29S30	AR-1715-0772	2-6-C20	AR-2201-0193
11M10-OSUT	AR-2201-0276	160-ASIA7	AR-1402-0161		AR-2201-0411
	AR-2201-0445	160-ASIG7	AR-1715-0677	2-6-C20 (RA)	AR-2201-0193
1200	AR-1408-0173	160-ASIG8	AR-1715-0764	2-6-C22	AR-1408-0028
121-21G10	AR-1715-0823	160-ASIK8	AR-1715-0195		AR-1408-0213
121-21G20	AR-1715-0488	160-ASIV4 (CT)	AR-1715-0872	2-6-C25	AR-2201-0168
121-21G30	AR-1715-0624	160-F20	AR-1715-0594	2-6-C26	AR-1408-0174
121-21G40	AR-2201-0291	160-F21	AR-1715-0617	2-6-C32-131A	AR-1402-0111
121-21L10	AR-1715-0752	160-F27	AR-1715-0852	2-6-F2	AR-2201-0168
121-21L30	AR-1715-0751	160-F30 (29S)	AR-1715-0690	2-7-C20	AR-2201-0192
121-23R10	AR-1715-0946	160-F32	AR-1715-0763		AR-2201-0428
121-23R10-A-T	AR-1715-0944	160-F37	AR-1715-0195	2-7-C22	AR-2201-0435
121-23R10-B-T	AR-1715-0943	161-71M20-RC	AR-1406-0130	2-7-C25	AR-2201-0438
121-24C1/2/30 (PIP 3)-T	AR-1715-0945	16D10-OSUT	AR-1715-0511	2-7-C26	AR-2201-0437
121-24C10	AR-1715-0814	16D10-OSUT (Phase 1)	AR-1715-0511	2-7-F1	AR-2201-0167
121-24E10	AR-1715-0821	16F10-OSUT	AR-2201-0252		AR-2201-0429
121-24L30	AR-1715-0740		AR-2201-0301	2-96-C42	AR-1406-0125
121-24M30	AR-1715-0810	16H10-OSUT	AR-1601-0068	2-98-C42	AR-1406-0126
121-24N10	AR-1715-0120	16H10-OSUT (Phase 1)	AR-1601-0068	2-N-F2	AR-2201-0168
121-24N30	AR-1715-0809	16H10-OSUT (ST) (Phase 1	AR-1601-0068	2000	AR-1405-0198
121-24R40-A	AR-1715-0799	and 2)		201-26Q20	AR-1715-0699
121-24R40-B	AR-1715-0802	16T10-OSUT	AR-1715-0578	201-31C10	AR-1404-0009
121-24R50-B	AR-1715-0521		AR-1715-0580	201-31C20	AR-1404-0037
121-24U10	AR-1715-0084	16T10-OSUT (24T)	AR-1715-0580	201-31Q10	AR-1715-0782
121-27B10	AR-1715-0748	19-82	AR-0419-0042	201-31Q20	AR-1715-0699
121-27B30	AR-1715-0652	19-OE-12	AR-1728-0010	201-ASIR6	AR-1715-0762
121-27E10-RC	AR-1715-0755	191-ASIF8	AR-1606-0006	201-ASIV8 (29E) (CT)	AR-1715-0885
121-27E10/121-27E10 (ST)	AR-1715-0299	191-F1	AR-1606-0006	201-ASIV9 (05C)	AR-1715-0608
121-27E30	AR-1408-0105	198-39B10	AR-1715-0850	201-ASIV9 (31C)	AR-1715-0608
121-27F10	AR-1715-0758	198-39E10	AR-1715-0779	201-ASIX1	AR-1715-0878
121-27F30	AR-1715-0756	198-39E30	AR-1715-0854	202-293.1	AR-1715-0053
121-27G10	AR-1715-0529	198-ASIW3	AR-1715-0761	202-31M10	AR-1715-0053
121-27G30	AR-1715-0641	198-ASIX1	AR-1715-0596	202-31M20	AR-1715-0053
121-27H10	AR-1715-0909		AR-1715-0878		AR-1715-0606
121-27H30	AR-1715-0907	198-F4	AR-1715-0621	202-31N10	AR-1715-0849
121-27L10	AR-1715-0562	198-F7	AR-1715-0620	202-31R20	AR-1715-0606
121-27L30	AR-1715-0747	198-F8	AR-1715-0622	202-AS17A	AR-1715-0929
121-27M10	AR-1715-0564	19D10-OSUT (M113)	AR-2201-0332	202-ASIX4	AR-1715-0654
121-27M30	AR-1715-0749	19D10-OSUT (M3)	AR-2201-0331	202-ASIV1 (31M)	AR-1715-0775
121-7212	AR-1715-0576	19E10-OSUT (M60A3)	AR-2201-0333	202-F4	AR-1715-0654
121-ASIG6	AR-1715-0300				
121-ASIJ9	AR-1715-0565				
121-ASIJ9(RC)	AR-1715-0737				

21-214	AR-2201-0399	243-96B30	AR-1606-0192	2C-100B-C	AR-1606-0074
221-11-16J30	AR-2201-0267	243-96F10	AR-1512-0021	2C-100G	AR-1606-0074
221-13R/17B30	AR-1715-0635	243-96F10-RC-IDT/ADT	AR-1512-0022	2C-15A	AR-1606-0074
221-13R/17B40	AR-2201-0292	243-96F10-30	AR-1512-0020	2C-15ABX	AR-1606-0074
221-13R10	AR-1715-0829	243-96R10	AR-1715-0178	2C-15B	AR-1606-0074
221-13R30/221-17B30	AR-1715-0635	243-F11	AR-1511-0013	2C-15H/2C-100B-B	AR-1606-0074
221-14J10	AR-1715-0953	244-97B10	AR-1728-0086	2C-15C/2B	AR-1715-0871
221-17B/13R40	AR-2201-0292	244-97B20	AR-1728-0082	2C-15C/2B-ASIB5	AR-1606-0204
221-17B10	AR-1715-0250	244-97B20-T	AR-1728-0080	2C-15C/2B-ASIF1	AR-1715-0498
221-17B10 (ST)	AR-1715-0250	244-97B30	AR-1728-0081	2C-15C/2B-ASIF2	AR-1715-0569
221-17B20	AR-1715-0250	244-ASIF1	AR-1606-0176	2C-15C/2B-ASIF3	AR-1715-0568
221-17K10	AR-1715-0178	244-ASIF1-RC	AR-1511-0019		AR-1715-0913
221-96H10	AR-1709-0010		AR-1511-0020	2C-1981-B	AR-1606-0074
221-ASIL3	AR-1715-0493	250-0841	AR-2201-0145	2C-ASI1G-B/2C-100C-B	AR-1606-0064
221-ASIX5	AR-1715-0838	250-0844	AR-1601-0055	2C-ASI1G-D/2C-100C-D	AR-1606-0064
221-F6	AR-1715-0493	250-0846	AR-2201-0145	2C-ASI1G	AR-1606-0133
221-T	AR-1710-0139	250-0848	AR-1304-0009	2C-ASI1A/2C-152D	AR-1606-0161
221-W	AR-1710-0153	250-10-13E30	AR-2201-0257	2C-ASI1M/2C-100E	AR-1606-0058
222-93C10	AR-1704-0177	250-10-13F30	AR-2201-0256	2C-ASI1Q/2C-100B-D	AR-1606-0180
222-93C30	AR-1704-0175	250-13-13E30	AR-2201-0257	2C-ASI5K/2C-SQIC	AR-1606-0053
222-93C40	AR-1704-0176	250-13-13F30	AR-2201-0256	2C-F23	AR-1606-0047
222-93J10	AR-1704-0003	250-13C10	AR-1715-0832	2C-F31	AR-1606-0166
222-93J20	AR-1704-0003	250-13C30	AR-1715-0638	2C-F32	AR-2201-0212
230-F1	AR-2201-0037	250-13C40	AR-2201-0369	2C-F33	AR-1406-0079
2300	AR-1401-0043	250-13E10	AR-1715-0844	2C-F34	AR-2201-0303
231-05D10	AR-1409-0011	250-13F10	AR-1715-0846	2C-F36	AR-1606-0168
231-05D30	AR-2201-0316	250-13F40	AR-2201-0363	2C-F37	AR-1606-0172
231-05G30	AR-1717-0054	250-15J10	AR-1601-0056	2C-F51/4D-ASI1F/600-ASIQ2	AR-1704-0008
231-05H10	AR-1409-0012	250-15J40	AR-2201-0289	2C-F51/4D-ASIH2/552-	
231-05H30	AR-1717-0079	250-16H10	AR-1601-0068	ASIQ2-RC	AR-1408-0211
231-05K30	AR-1717-0078	250-16H10-AIT	AR-1601-0068	2C-F51/4D-ASIH2/600-	
231-96R30	AR-1606-0207	250-16H10-OSUT	AR-1601-0068	ASIQ2	AR-1408-0212
231-97G10	AR-1402-0127	250-18-13E30	AR-2201-0257		AR-1704-0008
231-97G30	AR-1402-0126	250-18-13F30	AR-2201-0256	2C-F7 (MS/WO/RC)	AR-0799-0018
231-98D10	AR-1409-0011	250-2-13E30	AR-2201-0257	2C-F8	AR-0799-0021
231-98D30	AR-1715-0914	250-2-13F30	AR-2201-0256	2C-OH-58/UH-1/AH-1/UH-60	AR-1606-0181
231-98H30	AR-1717-0079	250-5-13E30	AR-2201-0257	2C-SI1B/2C-154C	AR-1606-0178
231-98K30	AR-1717-0078	250-5-13F30	AR-2201-0256	2C-SI1D/2C-152B (OH-58)	AR-1606-0184
231-ASIA4	AR-1404-0011	250-8-13E30	AR-1402-0160	2C-SI1E/2C-153B (UH-1)	AR-1606-0183
231-ASIK3	AR-1715-0822		AR-2201-0257	2C-SI1M/2C-152G (AH-1)	AR-1606-0185
231-F20	AR-1715-0789	250-8-13F30	AR-2201-0256	2C-SI1N/2C-153D (UH-60)	AR-1606-0182
231-F24	AR-1715-0893	250-848	AR-2201-0042	2C-SI1K/2C-SQIC (OH-58D)	AR-1406-0119
231-F26	AR-1715-0892	250-9-13E30	AR-2201-0257	2C-SI1G/2C-154B	AR-1606-0064
231-F29	AR-2201-0317	250-9-13F30	AR-2201-0256	2C-SI1L/2C-152F	AR-1606-0179
231-F7	AR-2201-0317	250-ASI2S	AR-2201-0412	2C-SI1V/2C-SQIF	AR-1606-0190
232-98C30	AR-1715-0734	250-F14	AR-1402-0072	2C-SI5K/2C-SQIC	AR-1406-0117
232-98G3LXX	AR-1715-0728	250-F32	AR-1402-0112		AR-1406-0122
232-F5	AR-1402-0089	250-F33	AR-1402-0084	2C-SI5K/2C-SQIC (CH-47D)	AR-1406-0120
232-F8	AR-2201-0313	250-F39	AR-1402-0163	2C-SI5K/SQIC (AH-64)	AR-1406-0121
233-96H10	AR-1606-0208	250-F5	AR-2201-0042	2C-SI5K/SQIC (UH-1)	AR-1406-0113
233-96H30	AR-1606-0203	250-F6	AR-1402-0074	2C-SI5K/SQIC (UH-60)	AR-1406-0115
233-98J10	AR-1715-0710	260-31D10 (CT)	AR-1715-0884	2C/SI5K/SQIC (OH-58D)	AR-1406-0118
233-98J30	AR-1715-0726	260-31F10	AR-1715-0886		
233-ASIG4	AR-2201-0203	260-31F10 (CT)	AR-1715-0886	2E-1174	AR-2201-0063
233-ASIJ1	AR-1715-0729	260-31F20	AR-1404-0044	2E-1190	AR-1402-0026
233-ASIZ7	AR-1715-0731	260-72E10/260-72G10	AR-1406-0129	2E-11B/C	AR-2201-0085
233-F13/3B-ASI9C	AR-1402-0141	260-72E20	AR-1715-0881	2E-13A	AR-2201-0219
	AR-1715-0790	260-72G20	AR-1715-0881	2E-13D	AR-1601-0054
233-F14/3B-F14	AR-1402-0142	260-74C10	AR-1404-0046	2E-13E	AR-2201-0368
233-F15	AR-1606-0205	260-74C20	AR-1404-0047	2E-14B	AR-2201-0063
233-F7	AR-2201-0203	260-74C30	AR-1404-0047	2E-14B-RC	AR-1715-0951
233-F8	AR-1715-0730	260-ASIK7	AR-1715-0605		AR-2201-0415
		260-ASIU3	AR-1715-0501		AR-2201-0416
241-96C10	AR-1728-0084	260-ASIY3 (CT)	AR-1715-0875	2E-14E-RC	AR-2201-0417
241-97E10	AR-1728-0084	260-ASIZ2	AR-1402-0078	2E-1543	AR-2201-0085
241-97E30	AR-1606-0198	260-F1 (72E)	AR-1715-0693	2E-180A	AR-1406-0096
		260-F2	AR-1715-0708	2E-18A	AR-2201-0346
242-96D10	AR-1606-0193	2600	AR-1406-0112	2E-18A-RC	AR-2201-0347
242-96D30	AR-1606-0191	2B-ASI2K		2E-514D	AR-1402-0162
242-F5	AR-1715-0870	2B-SI5K/2B-SQIC (U-21)	AR-1715-0569	2E-AS132	AR-2201-0085
			AR-1406-0116	2E-ASI3R/494-SQIC	AR-1720-0007
243-37F10	AR-1512-0021	2C-SI1A/2C-152D	AR-1606-0161	2E-ASI3Z/010-F1	AR-2201-0085
243-37F30	AR-1512-0020			2E-ASI4F/250-ASIY1	AR-1402-0084
243-37F40	AR-1512-0025	2C-062B-B	AR-1606-0074	2E-AS15H-A	AR-0802-0025
243-37R40-RC	AR-1512-0026	2C-100-B	AR-1606-0074	2E-ASI5I/494-ASIY5	AR-0802-0001
243-96B10	AR-1728-0083	2C-100B-B	AR-1606-0074	2E-F108	AR-1606-0188

2E-F109.....	AR-1606-0169	2G-F26.....	AR-2201-0272	321-F3.....	AR-0102-0003
2E-F112.....	AR-1512-0019		AR-2201-0450	322-91S10.....	AR-0707-0016
2E-F130.....	AR-2201-0377	2G-F27.....	AR-1408-0202	322-91S10-RC.....	AR-0707-0017
2E-F132/011-F45.....	AR-0803-0013	2G-F30.....	AR-1402-0074	322-91X20.....	AR-0705-0009
2E-F138/011-F47.....	AR-0803-0014	2G-F39.....	AR-1728-0070	322-N4.....	AR-0705-0009
2E-F141/011-F27.....	AR-1408-0163	2G-F40.....	AR-2201-0270		
2E-F145.....	AR-2201-0380	2G-F41.....	AR-1606-0197	33-G-F3.....	AR-2201-0162
2E-F163.....	AR-2201-0443	2G-F42.....	AR-1606-0173	330-91E10.....	AR-0701-0013
2E-F2.....	AR-2201-0041	2G-F44.....	AR-2201-0318	330-91E10-RC.....	AR-0701-0012
2E-F2/011-F2.....	AR-2201-0041	2G-F46.....	AR-1405-0140	330-X2.....	AR-0701-0002
2E-F21.....	AR-0802-0001	2G-F50.....	AR-2201-0047		AR-0701-0016
2E-F3.....	AR-2201-0038	2G-F52.....	AR-1402-0071		
2E-F3/011-F16.....	AR-2201-0273	2G-F57.....	AR-1402-0083	331-37F10-RC IDT/ADT.....	AR-1512-0022
2E-F3/011-SQIY.....	AR-2201-0038	2G-SI4F.....	AR-1402-0083	331-42D10.....	AR-0701-0014
2E-F49.....	AR-2201-0378			331-42D30.....	AR-0701-0015
2E-F49 (USMC).....	AR-2201-0378	3-30-C20-35D.....	AR-1408-0177	331-F1.....	AR-0701-0019
2E-F56/011-F15.....	AR-2201-0344	3-30-C22-35C.....	AR-1606-0194	331-N5.....	AR-0701-0014
2E-F57/010-ASIE9.....	AR-2201-0277	3-30-C22-35E.....	AR-1728-0085		
2E-F58/010-F5.....	AR-1710-0062	3-30-C22-35G.....	AR-1406-0128	3400.....	AR-1405-0201
2E-F58/010-F5/7-11M30/40.....	AR-1710-0062	3-30-C32.....	AR-1606-0202	3A-350B.....	AR-2201-0384
2E-F60.....	AR-2201-0449	3-30-C32-RC.....	AR-1606-0195	3A-350D.....	AR-1606-0200
2E-F60/011-F16.....	AR-2201-0273			3A-351E.....	AR-1606-0199
2E-F65/011-ASIS6.....	AR-1606-0177	300.....	AR-1406-0110	3A-35D.....	AR-1728-0087
2E-F65/011-F23.....	AR-1606-0177	300-91A10.....	AR-0709-0032	3A-F37/241-F1.....	AR-1728-0056
2E-F66/011-F25.....	AR-1511-0018	300-91B10.....	AR-0709-0032	3A-F38/012-F27.....	AR-0803-0007
2E-F67/011-F19.....	AR-2201-0349	300-91B20.....	AR-0709-0033	3A-F40/011-F21.....	AR-1513-0009
2E-F68/010-F8.....	AR-2201-0275	300-91C10.....	AR-0709-0009	3A-F42.....	AR-1715-0498
2E-F71/250-F16.....	AR-2201-0383	300-91C20.....	AR-0703-0015	3A-F43.....	AR-1715-0569
2E-F73/030-F3.....	AR-2201-0405	300-91C30.....	AR-0709-0009	3A-F45.....	AR-1715-0568
2E-F8.....	AR-2201-0162	300-91N10.....	AR-0709-0023	3A-F53/243-F12.....	AR-1512-0023
2E-F95.....	AR-2201-0400	300-91U10.....	AR-0709-0002	3A-F56/230-ASID4.....	AR-2201-0385
2E-F96.....	AR-2201-0381	300-91V10.....	AR-0704-0008	3A-F59.....	AR-1511-0025
2E-F96/041-F8.....	AR-2201-0284	300-91V20.....	AR-0704-0008	3A-S13E/AS19C/243-ASIT4.....	AR-1408-0176
	AR-2201-0381	300-91Y10.....	AR-0706-0002	3A-SI3E/AS19C/233-ASIT4.....	AR-1402-0142
2E-FOA-F142.....	AR-2201-0420	300-F10.....	AR-0801-0019	3A-SI3E/AS19C/243-ASIT4.....	AR-1408-0208
2E-FOA-F76.....	AR-2201-0284	300-F12.....	AR-0702-0006	3A-SI3Q/3C-AS19N/241-ASIN7.....	AR-1728-0056
2E-FOA-F77.....	AR-1715-0633	300-F2.....	AR-0702-0005	3A-SISE.....	AR-1512-0018
2E-FOA-F90 (USMC).....	AR-2201-0374	300-F6.....	AR-0709-0040	3A-SISE-RC.....	AR-1512-0017
2E-SI3X.....	AR-2201-0453	300-P2.....	AR-0709-0002	3A-WOTTC-CC.....	AR-1402-0128
	AR-2201-0454	300-Y6.....	AR-0702-0012		
2E-SI3Z.....	AR-2201-0451	301-91D10.....	AR-0709-0035	3B-352C.....	AR-1408-0137
2E-SI3Z/010-F1.....	AR-2201-0085	302-91F10.....	AR-0708-0001	3B-352C-RC.....	AR-1404-0043
2E-SI4W/4Y/011-ASIW7/W9.....	AR-0803-0006		AR-0708-0005	3B-352D.....	AR-1408-0135
2E-SI4X/AS14X/011-ASIW8.....	AR-2201-0345	302-91F20.....	AR-0708-0001	3B-352G.....	AR-1408-0138
2E-SI55-SR.....	AR-2201-0434	302-91G10.....	AR-1512-0016	3B-352G-RC.....	AR-1408-0206
2E-SI5J/494-ASUJ.....	AR-0802-0001	303-91J10.....	AR-0704-0001	3B-352H.....	AR-1408-0133
2E-SI5J/494J5.....	AR-0802-0001		AR-0704-0012	3B-352J.....	AR-1408-0136
2E-SI5PSQI7.....	AR-2201-0455	303-91L10.....	AR-0704-0004	3B-352J-RC.....	AR-1408-0205
2E-SI5Q.....	AR-2201-0444		AR-0704-0011	3B-352K.....	AR-1408-0134
		303-N3.....	AR-0704-0011	3B-982A.....	AR-1408-0137
2F-1180C.....	AR-1715-0382	303-N9.....	AR-0704-0012	3B-984A.....	AR-1408-0133
2F-1190P.....	AR-1715-0324			3B-985A.....	AR-1408-0134
2F-13B.....	AR-2201-0371	304-42C10.....	AR-0704-0010	3B-986A.....	AR-1408-0135
2F-13B/042-13M20/30/40-T.....	AR-1715-0935	304-91H10.....	AR-0704-0009	3B-988A.....	AR-1408-0138
2F-13C.....	AR-1715-0324			3B-AS19C/233-ASIT4.....	AR-1715-0790
2F-14C.....	AR-2201-0095	311-42E10.....	AR-0709-0015	3B-F11.....	AR-2201-0315
2F-14D.....	AR-1715-0382	311-91K10.....	AR-0702-0018	3B-F14/233-ASIT4.....	AR-1402-0142
2F-14D (PIP 2)-RC.....	AR-1715-0949	311-91K30.....	AR-0702-0019	3B-F16 (35G).....	AR-1715-0911
	AR-2201-0419	311-91X20.....	AR-0705-0009		
2F-14D (PIP 3).....	AR-1715-0959	311-92B10.....	AR-0702-0013	3C-351B.....	AR-1606-0201
2F-14E.....	AR-2201-0261	311-92B30.....	AR-0702-0007	3C-AS19L/244-ASIG9.....	AR-1715-0711
2F-14EX.....	AR-2201-0261	311-92E20.....	AR-0702-0011	3C-F14/244-F8.....	AR-1511-0024
	AR-2201-0421	311-M2.....	AR-0702-0011	3C-SQIW/244-ASIG9.....	AR-1715-0711
2F-14F (PIP 2).....	AR-1715-0382	311-M4.....	AR-0702-0016		
2F-A1.....	AR-2201-0456	312-91Q10.....	AR-0709-0005	4-11-C20.....	AR-1404-0006
2F-F16/042-ASIY1 (13M).....	AR-2201-0408		AR-0709-0052		AR-1408-0209
2F-F17/043-F10.....	AR-1715-0952	313-91P10.....	AR-0705-0001	4-11-C20 (BQ).....	AR-1408-0210
2F-F18/043-F11.....	AR-1715-0958	313-F1.....	AR-0705-0004	4-11-C22-25C.....	AR-1715-0770
2F-F8.....	AR-2201-0063		AR-0705-0011	4-11-C25-RC.....	AR-2201-0307
2F-FOA-F14.....	AR-1715-0803	31M10-CELT.....	AR-1715-0053	4-11-C26-RC.....	AR-2201-0306
2F-FOA-F15.....	AR-1715-0796			4-11-C32-250A.....	AR-1715-0704
		321-91R10.....	AR-0104-0002	4-11-C32-252A.....	AR-1715-0707
2G-5702.....	AR-1720-0001		AR-0104-0013	4-11-C32-256A.....	AR-1715-0860
2G-AS14D/250-ASIX3.....	AR-1402-0071	321-91R10-RC.....	AR-0104-0011	4-11-C32-290A.....	AR-1715-0704
2G-AS14D/250-F14.....	AR-1402-0072	321-91R20.....	AR-0104-0001		
2G-F23.....	AR-2201-0259	321-91T10.....	AR-0102-0007	4-5-C20.....	AR-1601-0091
2G-F25.....	AR-2201-0265	321-91T30.....	AR-0102-0005	4-5-C22.....	AR-1601-0092
				4-5-C32-210A.....	AR-1405-0232

4-5-C32-210A-RC	AR-1601-0094	492-57F30	AR-0709-0027	4D-S11A/2C-SQIG	AR-1717-0086
4-5-C32-213A	AR-1712-0022		AR-0709-0046	4D-S11B/2C-SQIG	AR-1717-0084
4-5-C32-213A-RC (SWOT)	AR-1712-0023	492-57F40	AR-0709-0037	4D-S11F/2C-SQIG	AR-1717-0082
4-54-C42	AR-2201-0029	492-92M30	AR-0709-0046	4D-S11G/2C-SQIG	AR-1717-0084
4-84-C42/G3AAR23199-000	AR-1719-0005	492-92M40	AR-0709-0037	4D-S11I/2C-SQIG	AR-1717-0093
4-9-C20-91A	AR-1405-0074	494-54B	AR-0801-0012	4D-S11M/2C-SQIG	AR-1717-0083
4-9-C20-91B	AR-1405-0074	494-54B (R)	AR-0801-0010	4D-S11N/2C-SQIG	AR-1717-0087
4-9-C20-91C	AR-1405-0159	494-54B10 OSUT	AR-0801-0032	4D-S11P/2C-SQIG	AR-1717-0085
4-9-C20-91D	AR-1405-0158	494-54B20	AR-0801-0028	4D-SIB1/2C-SQIG	AR-1717-0082
4-9-C22	AR-1408-0108	494-54B20-R	AR-0801-0027	4D-SIC2/2C-SQIG	AR-1717-0084
4-9-C22-91A	AR-1405-0150	494-54B20-T	AR-0801-0010	4D-SIG6/SQIG	AR-1717-0084
4-9-C22-91A-RC	AR-1405-0151	494-54B40	AR-0801-0029	4D-SIG6/SQIG (AH-1)	AR-1717-0083
4-9-C22-91B	AR-1717-0107	494-54C10	AR-1704-0044	4D-SIG6/SQIG (OH-58A/C)	AR-1717-0085
4-9-C22-91C/D	AR-1408-0153	494-54C20-T	AR-1704-0046	4D-SQIE	AR-1704-0062
4-9-C22-91C/DD	AR-1408-0153	494-5711	AR-1720-0001	4D-SQIE (AH-1)	AR-1715-0887
4-9-C32-260A0	AR-0802-0019	494-ASI-L5	AR-0801-0026	4D-SQIE (AH-64)	AR-1704-0183
4-9-C32-411A0	AR-0802-0022	494-F3	AR-0802-0001		
4-9-C32-421A	AR-1710-0123	4A-210A	AR-1710-0177	4E-421A	AR-1717-0077
4-9-C32-441A	AR-1405-0152	4A-210A-RC	AR-1710-0176	4E-910A	AR-0802-0021
4-9-C32-630B	AR-1405-0153	4B-140E	AR-1715-0797	4E-910A-RC	AR-2201-0394
4-9-C32-630C	AR-1703-0032	4B-670A	AR-0799-0019	4E-911A	AR-1715-0750
4-9-C32-630D	AR-1703-0033	4B-670A/198-35U20	AR-1715-0639	4E-913A	AR-1717-0096
4-9-C32-910A	AR-0802-0022	4B-670A/198-35U30	AR-1715-0639	4E-913A-RC	AR-1717-0103
4-9-C32-910A-RC	AR-1408-0198	4B-670A/198-670A	AR-0799-0019	4E-F0A-F10	AR-1405-0146
4-9-C32-911A	AR-2201-0391	4B-918A	AR-1717-0108	4E-F0A-F11	AR-1405-0148
4-9-C32-912A	AR-1715-0900	4B-F2/198-91A10	AR-1715-0759	4E-F0A-F9	AR-1720-0008
4-9-C32-913A	AR-1717-0105	4B-F20	AR-1715-0619	4E-F3	AR-0802-0002
4-9-C32-913A (CT)	AR-1717-0100	4B-F4/198-F4	AR-1715-0621	4E-F3/431-55D20	AR-0802-0002
4-9-C32-914A (CT)	AR-1717-0099	4B-F5/198-F5	AR-0705-0007	4F-130A	AR-1715-0842
4-9-C32-914A-RC	AR-1717-0106	4B-F6/198-F6	AR-0705-0008	4F-130B	AR-1715-0843
4-9-C32-915D (CT)	AR-1717-0101	4B-F7/198-F7	AR-0715-0620	4F-140B	AR-1715-0656
4-9-C32-915D-RC	AR-1717-0098	4B-F8/198-F8	AR-1715-0622		AR-1715-0948
4-9-C32-915E (CT)	AR-1717-0095				AR-1715-0962
4-9-C32-915E-RC	AR-1717-0104	4B/F2/198-35G10-Y-1	AR-1715-0759	4F-140D	AR-1715-0947
4-9-C32-918A	AR-1717-0109	4C-131A	AR-1715-0840	4F-140D (PIP 2)	AR-1715-0957
4-CL-C42	AR-2201-0029	4C-131A-RC	AR-1715-0841	4F-140D (PIP 3)	AR-1715-0947
400	AR-1408-0172	4C-140A	AR-1715-0807	4F-140D/121-24R40/50-T	AR-1715-0955
400-ANCOC-MTA	AR-1404-0035	4C-211A	AR-1715-0558	4F-140D/632-24R40/50-T	AR-1715-0955
400-ANCOC-RC	AR-2201-0295		AR-1715-0840	4F-140E	AR-1715-0797
400-BNCOC-MTA	AR-1406-0090	4C-225B	AR-1715-0807	4F-214E	AR-1715-0842
400-BNCOC-RC	AR-2201-0337	4C-250A	AR-1402-0132	4F-214EB	AR-1715-0488
400-SQIM	AR-2201-0299	4C-250A-RC	AR-1715-0859	4F-224B	AR-1715-0656
411-82C40	AR-2201-0293	4C-250B	AR-1402-0130	4F-912A	AR-1715-0899
412-82B10	AR-1601-0087	4C-256A	AR-1402-0131	4F-912A-RC	AR-1715-0894
412-82C10	AR-1601-0079	4C-256A-RC	AR-1715-0858	4F-917A	AR-1715-0897
412-82C10/412-82C10 (ST)	AR-1601-0079	4C-25A	AR-1715-0226	4F-F0A-F20	AR-1405-0148
412-82C30	AR-2201-0376	4C-25E	AR-1402-0154	4F-F12/121-F27 (PIP 3)	AR-1715-0906
413-51T30	AR-1601-0090	4C-285A	AR-1408-0132	4F-F14/121-F29	AR-1715-0754
413-81B10	AR-1713-0009	4C-286A-RC	AR-1715-0858	4F-F15/121-24R50-T	AR-1715-0574
420-93F10	AR-1304-0011	4C-290A-RC	AR-1715-0859	4F-F16/121-F30	AR-1715-0757
420-93F10-RC	AR-1304-0012	4C-353A	AR-1408-0194	4F-F17	AR-1715-0753
420-93F20-T	AR-1715-0121		AR-1408-0207	4F-F21	AR-1715-0644
420-93F30	AR-1304-0010	4C-ASI3T	AR-1715-0598	4F-F22	AR-1715-0647
420-93F40	AR-1304-0008	4C-ASI6B	AR-1715-0226	4F-F29/121-F35	AR-1715-0950
420-ASIH1	AR-1715-0835	4C-F18	AR-1715-0500	4F-F3/121-ASID3	AR-1710-0108
431-413.1	AR-0802-0002	4C-F19/102-ASIIIC	AR-1715-0925	4F-F30/121-F36	AR-1715-0960
431-55D10	AR-0802-0002	4C-F19/102-ASIA1	AR-1715-0694	4F-F31/121-F37	AR-1715-0961
431-55D20	AR-0802-0002	4C-F19/102-ASIIY1	AR-1715-0694	4F-F5	AR-2201-0260
431-55D30	AR-1728-0076	4C-F20	AR-1715-0598	4F-F5/041-ASIIJ4	AR-2201-0379
431-F3	AR-1733-0011	4C-F22/160-F23	AR-1715-0614	4F-SQIV	AR-1715-0897
431-F3 (Navy)	AR-1733-0011	4C-F24	AR-1715-0630		
433-F2	AR-1606-0209	4C-F33	AR-1402-0158	4H-881A	AR-1712-0020
450-02B-02U30	AR-1205-0012	4C-F37	AR-1715-0930	4H-SQI2 (881A)	AR-1712-0021
450-02B-02U30-RC	AR-1205-0013	4C-F39	AR-1715-0598		
450-97-C42	AR-1205-0006	4C-F41/101-F29	AR-1715-0880	4L-213A-RC	AR-1601-0093
450-97-C42-RC	AR-1205-0008	4C-F43/260-F11	AR-1715-0933	4L-914A	AR-1710-0115
491-51G10	AR-1601-0088	4C-FOA-F26	AR-1715-0700	4L-914A-RC	AR-1717-0102
491-77L10	AR-1601-0030	4C-S15D/260-ASID9	AR-1115-0013	4L-915A	AR-1710-0116
491-77L30	AR-1601-0095	4C-S16B	AR-2201-0386	4L-915A-RC	AR-1717-0097
491-92C30	AR-1601-0071	4D-151A	AR-1704-0199	4N-48F/500-F3	AR-2201-0343
492-57F10	AR-0709-0038	4D-15T/153A/154CGIG	AR-1717-0075	4N-91A	AR-1405-0154
		4D-71A/160A/100CGH (CH-47D)	AR-1717-0075	4N-921A	AR-1733-0010
		4D-91C/D	AR-1408-0152	4N-FOA-F6	AR-1703-0034
		4D-F4/600-F11	AR-1704-0157	4N-FOA-F7	AR-1703-0035
				5-16-C20	AR-1408-0141
				5-16-C22	AR-1408-0140
				5-16-C23	AR-1408-0180

5-27-C20	AR-1728-0114	514-88N30	AR-0419-0041	5B-201A	AR-1715-0629
5-41-C23	AR-1511-0014	521-SQIM	AR-0802-0020	5D-F5	AR-1511-0027
5-641-C42	AR-0419-0017	531-74D10	AR-1402-0117	5D-F6/500-F4	AR-1511-0016
5-641-C42B	AR-0419-0017	531-74D10/531-74D10 (ST) ..	AR-1402-0117	5E-39B	AR-1512-0018
5-71-C42	AR-1406-0102	531-74D30	AR-1402-0116	5E-39B-RC	AR-1512-0017
5-74-C42	AR-1402-0119	531-ASIM6	AR-1402-0095	5G-ASI7D	AR-1406-0085
5-741-C42	AR-1402-0119	532-74F10	AR-1402-0114	5G-ASI7E	AR-1408-0129
5-761-C42	AR-1405-0178	532-74F10 (ST)	AR-1402-0114	5G-ASI7F	AR-1402-0088
5-79-C42	AR-1406-0158	532-74F30	AR-1402-0120	5G-ASI7F/561-F5	AR-1402-0088
5-88-C42A	AR-0419-0051	533-88N30	AR-0419-0041	5G-F2	AR-1408-0128
5-88-C42B	AR-0419-0050	541-73D10	AR-1401-0041	5G-F3	AR-1406-0084
500	AR-1405-0199	542-73C/D30	AR-1401-0035	5G-F4	AR-1406-0083
500-38A10-RC	AR-1511-0026	542-73C/D40	AR-1401-0050	5G-F5	AR-1406-0082
500-75B10	AR-1406-0105	542-73C10	AR-1401-0033	5G-F6/561-F1	AR-1408-0131
500-75B10/75B10 (ST)	AR-1406-0153	542-73C10 (ST)	AR-1401-0033	5H-F20/302-F20	AR-1512-0011
500-75B30	AR-1406-0100	542-73C30	AR-1401-0035	5H-F4/302-F4	AR-0801-0025
500-75C/D/E30	AR-1403-0014	542-73C40	AR-1401-0050	5H-F5/302-F5	AR-0801-0007
500-75C10	AR-1406-0147	542-73D40	AR-1401-0050	5H-F6/302-F6	AR-0801-0015
500-75C30	AR-1406-0148	542-F14	AR-1401-0045	5H-F7/30-F7	AR-0801-0035
500-75D10	AR-1406-0011	542-F4	AR-0418-0001	5H-F8/302-F8	AR-1512-0013
500-75D30	AR-1406-0149	542-F6	AR-1401-0048	5H-F9/302-F9	AR-1512-0024
500-75E10	AR-1406-0026	542-F9	AR-1401-0044	5K-F3/520-F3	AR-0801-0014
500-75E10 (ST)	AR-1406-0026	54B10 OSUT (ST1)	AR-0801-0030	5K-F4/520-F4	AR-1406-0092
500-75E30	AR-1406-0150	54B10OSUT	AR-0801-0033	5K-F5/012-F30	AR-1406-0169
500-75F10/75F10 (ST)	AR-1403-0013	54B10OSUT (ST2)	AR-0801-0031	5K061FD90	AR-1406-0095
500-75F30	AR-1405-0196	55-G-F1	AR-0419-0036	5K061FD92	AR-1406-0036
500-75Z40	AR-1406-0102	551-55R10/551-55R10-RC ..	AR-1405-0155	5K061FD92	AR-1406-0037
500-F22	AR-1406-0123	551-55R30	AR-1402-0086	6-55-C42A	AR-1406-0036
500-SQID	AR-1511-0012	551-55R30	AR-1402-0143	6-63-C42 (41J)	AR-2201-0398
5000	AR-1406-0111	551-767.1	AR-1405-0024	6-63-C42 (44E)	AR-1406-0081
501-ASIV7 (ARNG)	AR-1408-0184	551-76C10	AR-1405-0175	6-63-C42 (45Z)	AR-1723-0010
501-00E20 (ARNG)	AR-1406-0139	551-76J10	AR-1405-0024	6-63-C42 (62B)	AR-1704-0141
501-00R30	AR-1406-0020	551-76J10-RC	AR-1405-0241	6-63-C42 (62B)	AR-1710-0128
501-79D30	AR-1406-0159	551-76J20	AR-1405-0202	6-63-C42 (63B, D, E, N, T) ..	AR-1710-0129
501-79D30 (ARNG)	AR-1406-0020	551-76P10	AR-1405-0024	6-63-C42 (63B, D, E, N, T) ..	AR-1710-0130
501-79D30-RC	AR-2201-0388	551-76P30	AR-1405-0024	6-63-C42 (63B, D, E, N, T) ..	AR-1710-0131
501-ASIV7	AR-2201-0357	551-76V10	AR-1401-0032	6-63-C42 (63B, D, E, N, T) ..	AR-1710-0132
501-ASIV7-ARNG	AR-1406-0160	551-76V30	AR-1405-0161	6-63-C42 (63H)	AR-2201-0320
501-F13	AR-1406-0164	551-76V40	AR-1405-0179	6-8-C20	AR-1710-0127
501-F14	AR-1406-0165	551-76X30	AR-1405-0164	6-8-C20	AR-0707-0019
501-F16	AR-1406-0101	551-76Z50	AR-1405-0163	6-8-C20 (HPSP)	AR-0801-0008
501-F16 (ARNG)	AR-1406-0134	551-88N30-RC	AR-1405-0174	6-8-C20 (MSC/WO)	AR-0707-0010
501-F2	AR-1406-0032	551-88N40-RC	AR-1405-0173	6-8-C20 (USUHS)	AR-1408-0104
501-F31 (ARNG)	AR-1406-0163	551-92A10	AR-0419-0064	6-8-C20(MC/DC/VC)	AR-0707-0023
501-F7	AR-1408-0185	551-92A30	AR-0419-0060	6-8-C22	AR-0326-0042
501-F8	AR-1406-0166	551-92A40	AR-1405-0238	6-8-C22 (CLOAC)	AR-1408-0220
501-OOR/OOE30	AR-2201-0356	551-ASIB1-RC	AR-1405-0239	6-8-C22 (RC-OAC)	AR-0799-0015
501-SQ14	AR-1406-0156	551-ASIB5	AR-1405-0240	6-8-C22 (RC-OAC/P2)	AR-0799-0015
510-71C/L30	AR-1406-0103	551-ASIF3	AR-2102-0004	6-8-C22 (RC-OAC/P3)	AR-0799-0016
510-71C/L30	AR-1408-0164	551-ASIU8	AR-1402-0101	6-8-C26	AR-0709-0041
510-71L10	AR-1408-0164	551-F1	AR-1405-0169	6-8-C40	AR-1408-0068
510-71L30	AR-1408-0169	551-F5	AR-1402-0059	6-8-C40	AR-1408-0203
510-71L40	AR-1404-0001	551-SQIK	AR-1405-0203	6-8-C40 (42D)	AR-0701-0017
510-ASIF5	AR-1407-0008	552-76Y10	AR-1405-0167	6-8-C40 (76J Tech Tng)	AR-0799-0026
511-71C10	AR-1407-0008	552-76Y30	AR-1405-0061	6-8-C40 (76J)	AR-0799-0026
511-71C10/20	AR-1407-0008	552-76Y40	AR-1405-0235	6-8-C40 (91B Tech)	AR-0709-0049
512-71D/E30	AR-1407-0009	552-92Y10	AR-1405-0233	6-8-C40 (91B)	AR-0709-0049
512-71D/E40	AR-1728-0088	552-92Y30	AR-1405-0162	6-8-C40 (91E)	AR-0701-0018
512-71D10	AR-1403-0002	552-92Y40	AR-1405-0235	6-8-C40 (91E)	AR-0801-0034
512-71D10 (ST)	AR-1403-0017	552-92Y30	AR-1405-0233	6-8-C40 (91M)	AR-1729-0049
512-71D10-RC	AR-1403-0002	552-CMF 67 ANCOC-RC	AR-1405-0162	6-8-C40 (91R)	AR-1729-0048
512-71D40	AR-1728-0089	553-88N10	AR-1704-0196	6-8-C40 (91T)	AR-0104-0012
512-71D40	AR-1407-0007	553-88N30	AR-0419-0061	6-8-C40 (92B)	AR-0702-0017
512-71E40	AR-1407-0006	556-93P10	AR-0419-0058	6-8-C42	AR-0799-0027
513-71G10	AR-1403-0010	556-93P30	AR-1704-0178	6-8-C42 (91M40)	AR-0799-0028
513-71G10-RC (Phase 2)	AR-0709-0048	556-93P40	AR-1704-0173	6-8-C8	AR-1408-0102
514-71N10	AR-0419-0040	561-71M10	AR-1704-0174	6-A-C1	AR-1408-0218
514-71N20	AR-0419-0005	561-71M20	AR-1402-0087	6-A-C20	AR-2201-0193
514-71N30	AR-0419-0041	561-F2	AR-1408-0139	6-E-22	AR-1715-0250
			AR-1408-0130	6-O-A	AR-2201-0193

6-R-156-1	AR-1715-0250	603-68H30	AR-1704-0114	622-F22 (36L)	AR-1715-0778
6-R-211-1	AR-1715-0250		AR-1704-0187	622-F29	AR-1715-0778
600	AR-1405-0197	605-19-PLDC	AR-2201-0253	62E10-OSUT	AR-1710-0084
600-00-PLDC	AR-2201-0253	610-3524	AR-1703-0061	62E10-OSUT (ST)	AR-1710-0084
600-66H20	AR-1704-0161	610-63B10	AR-1703-0028	62F10-OSUT	AR-1710-0092
600-66J30	AR-1704-0146	610-63B10 (ASI-H8)	AR-1703-0052	62F10-OSUT (ST)	AR-1710-0092
600-66N20	AR-1704-0123	610-63B10 (ASI-H8) (ST)	AR-1703-0052	62H10-OSUT	AR-1710-0091
600-66T20	AR-1704-0162	610-63B10 (ASIH8)	AR-1703-0052	62H10-OSUT (ST)	AR-1710-0091
600-66V20	AR-1704-0126	610-63B10(ST)	AR-1703-0028	62J10-OSUT	AR-1710-0086
600-66Y20	AR-1704-0127	610-63B20-IRR	AR-1710-0121	62J10-OSUT (ST)	AR-1710-0086
600-67A10	AR-1704-0190	610-63B30	AR-1703-0029	631-46N10	AR-1715-0122
600-67G30	AR-1704-0115	610-63B30 (CT)	AR-1703-0029	631-46N30	AR-1715-0649
600-67G40	AR-1704-0160	610-63B30 (IRR)	AR-1710-0122	632-24N10	AR-1715-0956
600-67H10	AR-1704-0038	610-63B40	AR-1710-0132	632-24T1/2/3/4-T	AR-1715-0798
600-67H30	AR-1704-0149	610-63G10/610-3524	AR-1703-0026	632-24T10	AR-1715-0582
600-67H40	AR-1704-0200	610-63H40	AR-1710-0127	632-24T30	AR-1715-0813
600-67K40	AR-1704-0166	610-63S10	AR-1703-0037	632-27X2/3/4	AR-1715-0746
600-67N10	AR-1704-0033	610-63W10 (CT)	AR-1703-0027	632-ASIT5	AR-1715-0746
600-67N10 (ST)	AR-1704-0033	610-ASIH8 (63S)	AR-1710-0117	635-08-PLDC	AR-2201-0253
600-67N20	AR-1704-0033	610-ASIH8 (63W)	AR-1710-0118	63H30 (IRR)	AR-1703-0058
600-67N30	AR-1717-0089	610-ASIL8 (63G)	AR-1714-0029	63N20	AR-1703-0044
600-67N30-RC	AR-1704-0189	610-ASIL8 (63H)	AR-1710-0113	640-10-PLDC	AR-2201-0253
600-67R10	AR-1704-0156	610-ASIW5 (68F)	AR-1714-0033	640-45Z40	AR-1704-0141
600-67R20/30-T	AR-1704-0158	610-F3 (IRR)	AR-1703-0055	641-2111 (USMC)	AR-2201-0096
600-67R30	AR-1717-0090	610-F4 (IRR)	AR-1710-0119	641-2131	AR-2201-0309
600-67R40	AR-1704-0163	611-63D30	AR-1703-0036	641-45B10/641-2111	AR-2201-0096
600-67S10	AR-1704-0194	611-63D30 (08T2)	AR-1710-0112	641-45B20	AR-2201-0096
600-67S30	AR-1704-0202	611-63D40	AR-2201-0320	642-2143 (45L)	AR-2201-0309
600-67T10	AR-1704-0204	611-63E10	AR-1704-0142	642-3121 (45L)	AR-2201-0309
600-67T20-T	AR-1704-0018	611-63E30	AR-1703-0040	642-45L10	AR-2201-0308
600-67T30	AR-1704-0150	611-63E40	AR-1710-0131	643-2146 (45K)	AR-1710-0114
600-67T30-RC	AR-1704-0195	611-63H10	AR-1703-0031	643-45D10	AR-1710-0157
600-67T40	AR-1704-0164	611-63H10 (CT)	AR-1703-0031	643-45E10	AR-1703-0050
600-67U10	AR-1704-0154	611-63H30	AR-1710-0111	643-45K10 (CT)	AR-1710-0114
600-67U30	AR-1704-0151	611-63N10	AR-1703-0042	643-45K30	AR-1710-0109
600-67U40	AR-1704-0165	611-63N30	AR-1710-0138	643-45T10	AR-1703-0045
600-67V10	AR-1704-0066	611-63N40	AR-1710-0130	643-ASIL8 (45K)	AR-1710-0104
600-67V10 (OH-58)	AR-1704-0066	611-63T30	AR-1710-0110	643-ASIM5 (45K)	AR-1710-0105
600-67V10 (OH-6)	AR-1704-0093	611-63T40	AR-1710-0129	644-55F30	AR-1715-0908
600-67V10 (ST) (OH-58)	AR-1704-0066	611-63Y10	AR-1703-0043	644-55G10	AR-1715-0204
600-67V30	AR-1704-0152	611-ASI-H8 (63E)	AR-1710-0135	644-55G10 (ST)	AR-1715-0204
600-67X10	AR-1704-0130	611-ASI-H8 (63H) (63Y)		644-55G20	AR-1715-0204
600-67X10-RC	AR-1704-0148	(63D)	AR-1710-0124	644-55G40	AR-2201-0398
600-67X30	AR-1704-0118	611-ASID3 (63T)	AR-2201-0326	645-07-PLDC	AR-2201-0253
600-67Y10	AR-1704-0095	611-ASIH8 (63N)	AR-1703-0051	645-55B/B40	AR-2201-0398
600-67Y30	AR-1704-0153	611-ASIH8 (63T)	AR-1703-0047	645-55B10	AR-2201-0022
600-67Y40	AR-1704-0188	611-ASIM5 (63H)	AR-1712-0016		AR-2201-0389
600-68J30	AR-1704-0119	611-F11 (IRR)	AR-1703-0044	645-55B10 (ST)	AR-2201-0022
600-93B10	AR-1606-0186	611-F4 (IRR)	AR-1703-0053	645-55B10-RC	AR-1710-0165
600-93B30	AR-1606-0187	611-F5 (IRR)	AR-1710-0126	645-55B20	AR-2201-0022
600-ASIB7	AR-1704-0087	611-F6 (IRR)	AR-1703-0038	645-55B30	AR-1715-0896
600-ASIB7 (67H)	AR-1704-0087	612-01-PLDC	AR-2201-0253		AR-2201-0392
600-ASIN1	AR-1606-0189	612-62B10	AR-1710-0167	645-55X30	AR-2201-0056
600-F6	AR-1704-0087	612-62B20	AR-1710-0087		AR-2201-0390
601-68B10	AR-1704-0186	612-62B30	AR-1710-0166	645-55X30 (AC)	AR-2201-0056
601-68B30	AR-1704-0106	612-62B40	AR-1710-0128	645-55X30-RC	AR-2201-0396
601-ASIE6 (68B)	AR-1704-0144	620-11-PLDC	AR-2201-0253	645-55X40	AR-2201-0393
601-ASIW5 (68B)	AR-1704-0203	621-31K10	AR-1715-0434	646-68J10	AR-1714-0031
602-68D10	AR-1704-0012	621-31L10	AR-1714-0015	646-68J30	AR-1704-0147
602-68D30	AR-1704-0107	621-31L20	AR-1715-0618	646-68J30 (AH-1)	AR-1704-0193
602-68F10	AR-1704-0075	621-36C10	AR-1714-0015	646-68J40	AR-1704-0192
602-68F30	AR-1704-0108	621-36C10-OSUT	AR-1714-0015	646-68X10	AR-1704-0191
	AR-1704-0108	621-36C20	AR-1715-0618	646-68X2/30-T	AR-1704-0206
	AR-1704-0182	621-36K10-OSUT	AR-1715-0434	646-68X30	AR-1704-0192
602-ASIW5 (68D)	AR-1704-0201	621-36M10	AR-1714-0027	646-ASIX1 (68J)	AR-1704-0159
602-ASIX1 (68D)	AR-1704-0180	621-36M20	AR-1714-0028		
	AR-1704-0198	622-29N10	AR-1715-0670		
602-ASIX1 (68F)	AR-1714-0032	622-29N30	AR-1406-0093		
602-ASIX1 (68H)	AR-1704-0197	622-36L10	AR-1715-0668		
603-68G10	AR-1704-0100	622-36L10-RC	AR-1715-0916		
	AR-1704-0207	622-36L30	AR-1715-0855		
603-68G30	AR-1704-0109	622-ASIP2	AR-1715-0778		
	AR-1704-0184	622-ASIV8 (29N) (CT)	AR-1715-0876		

652-88L30.....	AR-1712-0018	6H-68F.....	AR-0703-0027	730-62F10.....	AR-1710-0092
652-88L40.....	AR-1712-0019	6H-68H/312-F1.....	AR-0709-0017	730-62G10.....	AR-1710-0171
652-F2.....	AR-1722-0007		AR-0709-0053	730-62H10.....	AR-1710-0091
661-52E-ASI-S3.....	AR-1720-0009	6H-70F67.....	AR-1408-0219		AR-1710-0174
661-52E/ASI-E5.....	AR-1720-0010	6H-71E67.....	AR-0703-0027	730-62J10.....	AR-1710-0086
661-52E20.....	AR-1720-0012	6H-F10/322-F10.....	AR-0707-0021	760-43M10.....	AR-1716-0011
661-52E20/S2.....	AR-1720-0011	6H-F11/322-F11.....	AR-0707-0018		
661-71M40.....	AR-1408-0127	6H-F11/323-F11.....	AR-0707-0018	7A-F59/510-ASIF5.....	AR-1404-0040
		6H-F12/322-F12.....	AR-0101-0002	7B-F7/562-F2.....	AR-0803-0012
662-06-PLDC.....	AR-2201-0253	6H-F18/322-F18.....	AR-0705-0005	7B-F9/562-F4-RC.....	AR-0803-0011
662-52C10.....	AR-1701-0003	6H-F18/323-F18.....	AR-0705-0005	7B-FS/562-F2.....	AR-0803-0011
	AR-1702-0003	6H-F19.....	AR-0799-0024		AR-0803-0012
662-52D10.....	AR-1732-0013	6H-F23.....	AR-0707-0022	7B-S16P/562-ASIP5.....	AR-0803-0012
662-52D30 (Phase 1).....	AR-1406-0141	6H-F26.....	AR-1408-0221		
662-52F10.....	AR-1704-0181	6H-F9/322-F9.....	AR-0707-0015	7C-420A.....	AR-1406-0151
662-52X40.....	AR-1710-0133	6H-F9/323-F9.....	AR-0707-0015	7C-420A-RC.....	AR-1406-0152
662-53C30 (Phase 1).....	AR-1406-0143			7C-F13.....	AR-1406-0162
665-20-PLDC.....	AR-2201-0253	7-12-C20-42A.....	AR-1408-0200	7C-F14.....	AR-1406-0104
670-41C10 (CT).....	AR-1721-0002	7-12-C22.....	AR-1408-0168	7C-F15/500-F17.....	AR-1513-0010
670-41J40.....	AR-1406-0081	7-12-C23.....	AR-1408-0201	7C-F17.....	AR-1406-0061
		7-12-C32.....	AR-1408-0167	7C-F27/500-F18.....	AR-0326-0045
672-12-PLDC.....	AR-2201-0253	7-12-C32-RC.....	AR-1406-0154	7C-F33/501-F17.....	AR-1406-0161
675-13-PLDC.....	AR-2201-0253	7-14-C20-44A.....	AR-1408-0166	7C-F36/501-F18.....	AR-1406-0157
680-02-PLDC.....	AR-2201-0253	7-14-C22.....	AR-1401-0047		
682-04-PLDC.....	AR-2201-0253	7-14-C23 (Phases 1 and 3).....	AR-1401-0046	7D-44A/541-F4.....	AR-1401-0034
685-05-PLDC.....	AR-2201-0253	7-19-20-31.....	AR-1728-0026	7D-44B/541-F4.....	AR-1401-0034
687-21-PLDC.....	AR-2201-0253	7-19-C20-31.....	AR-1728-0090	7D-45A/B.....	AR-1408-0165
		7-19-C22.....	AR-1728-0035	7D-F15.....	AR-1401-0036
690-09-PLDC.....	AR-2201-0253		AR-1728-0091	7D-F18/542-F8.....	AR-1401-0037
690-52C30.....	AR-1601-0080	7-19-C32.....	AR-1728-0092	7D-F23.....	AR-1401-0038
690-52C30 (Phase 1).....	AR-1406-0142	7-51-C32.....	AR-1205-0009	7D-F25.....	AR-1115-0012
690-52F30 (Phase 1).....	AR-1406-0140	7-71-C42.....	AR-1401-0029	7D-F25/541-F9.....	AR-1115-0012
690-63J10.....	AR-1710-0159		AR-1406-0087	7D-F29/541-F12.....	AR-1401-0051
690-63J30.....	AR-1710-0095		AR-1406-0088	7D-F30/542-F4.....	AR-1401-0049
690-63J30-T.....	AR-1710-0160		AR-1407-0003	7D-F32/541-F4.....	AR-1401-0034
			AR-1407-0004		
692-15-PLDC.....	AR-2201-0253	7-A-C1.....	AR-2201-0192	7E-251A.....	AR-1402-0157
693-17-PLDC.....	AR-2201-0253	7-D-F4.....	AR-2201-0041	7E-53A.....	AR-1402-0115
694-16-PLDC.....	AR-2201-0253	7-E-14.....	AR-2201-0167	7E-F35/531-F10.....	AR-1402-0096
695-18-PLDC.....	AR-2201-0253	7-N-F1.....	AR-2201-0167	7E-F36/150-F10.....	AR-1402-0099
696-14-PLDC.....	AR-2201-0253	7-OE-15.....	AR-2201-0041	7E-F37/150-F11.....	AR-1402-0097
698-03-PLDC.....	AR-2201-0253			7E-F38/150-F12.....	AR-1402-0098
6A-61N9D.....	AR-0799-0022	700.....	AR-1717-0094	7E-F41.....	AR-1404-0045
6A-C4A.....	AR-0703-0026	702-2161.....	AR-1723-0008	7E-SI4H.....	AR-1402-0113
6A-DCCS.....	AR-0799-0025	702-42730.....	AR-1723-0008	7E-SI4H/7E-F40/260-F10.....	AR-1402-0113
6A-F5.....	AR-0703-0024	702-42750.....	AR-1703-0046		
	AR-0707-0020	702-44E10.....	AR-1723-0008	7H-311A.....	AR-1728-0097
	AR-0709-0045	702-44E30.....	AR-1723-0011	7H-311A-RC.....	AR-1728-0098
	AR-0799-0020	702-44E30 (44B).....	AR-1723-0009	7H-31D/830-ASIH3.....	AR-1728-0065
	AR-0801-0024	702-44E40.....	AR-1723-0010		AR-1728-0094
6A-F6.....	AR-0707-0014	702-45830.....	AR-1717-0162	7H-951A.....	AR-1728-0010
		702-45850.....	AR-1710-0161	7H-951A/832-95D10.....	AR-1728-0010
6AC4.....	AR-0703-0026			7H-ASI9D/832-ASIU7.....	AR-1728-0063
6F-66C.....	AR-0708-0003	704-44B10.....	AR-1703-0030	7H-F10.....	AR-1728-0032
	AR-0708-0004	704-44B10 (USA).....	AR-1703-0030	7H-F11.....	AR-1728-0008
6F-66D.....	AR-0703-0018	704-47233.....	AR-1703-0030	7H-F14/830-F10.....	AR-1728-0064
6F-66E.....	AR-0703-0010	704-F1-IRR.....	AR-1703-0049	7H-F16.....	AR-1728-0068
	AR-0703-0028			7H-F17/830-F12.....	AR-1728-0072
6F-66E(RC).....	AR-0703-0019	712-51B10.....	AR-1710-0173		AR-1728-0093
6F-66G.....	AR-0703-0023	713-55131-05.....	AR-1710-0170	7H-F18/830-F13.....	AR-1728-0071
6F-66H.....	AR-0703-0020	713-62E10.....	AR-1710-0170	7H-F19/830-F14.....	AR-1728-0067
6F-F2.....	AR-0703-0022	713-62F10.....	AR-1710-0168	7H-F19/830-F14 (CT).....	AR-1728-0067
6F-F3.....	AR-0703-0021	713-62J10/713-55131.....	AR-1710-0169	7H-F20.....	AR-1728-0074
6F-F5.....	AR-0703-0016	713-62N30.....	AR-1601-0083	7H-F21/832-ASIU7.....	AR-1728-0063
6F-F8.....	AR-0703-0017			7H-F22/830-F15.....	AR-1728-0027
		720-51K10.....	AR-1710-0172	7H-F36.....	AR-1728-0096
6G-640A (WO).....	AR-0104-0010	720-51N30.....	AR-1732-0009	7H-F38.....	AR-1728-0095
	AR-0104-0014	720-77W10.....	AR-1732-0010	7H-F45 (RTIC).....	AR-0799-0023
6G-F2/321-F2.....	AR-1729-0028	720-77W10-RC.....	AR-1732-0011		
6G-F3/321-F3.....	AR-0102-0003	720-77W30.....	AR-1732-0015	7K-F-12.....	AR-1606-0174
6G-F3/321-F4.....	AR-0102-0003			7K-F19.....	AR-0802-0027
6G-F5/321-F5.....	AR-0709-0042	721-51R10.....	AR-1714-0035	7K-F3.....	AR-0705-0003
6H-67E/321-F1.....	AR-0709-0053			7M-F2.....	AR-2201-0271
		730-1345.....	AR-1710-0090	7M-F3.....	AR-0709-0036
		730-55131.....	AR-1710-0089	7M-F3-RC.....	AR-0709-0043
		730-62E10.....	AR-1710-0084	7M-F4-RC/300-F4-RC.....	AR-0799-0017
				7M-F9.....	AR-0709-0044
				7N-420C.....	AR-1205-0010

7N-C42	AR-1205-0011	830-95B100ST	AR-1728-0023	8C-F11/542-F6	AR-0418-0004
8-10-C20-81A/82A/92A	AR-1405-0069	830-95C10	AR-1728-0007		AR-0418-0006
8-10-C20-92A	AR-1405-0236		AR-1728-0107	8C-F12/553-F1	AR-0419-0044
8-10-C20-BQ	AR-2201-0406	830-95C20	AR-1728-0103		AR-0419-0057
8-10-C22	AR-1408-0155	830-ASIV5	AR-1728-0028	8C-F13	AR-0419-0043
8-10-C22 (LOG)	AR-1405-0237		AR-1728-0101	8C-F16/533-F3	AR-0419-0056
8-10-C22 (LOG) P1	AR-1408-0215	830-F8	AR-1728-0028	8C-F17/553-F5	AR-0419-0053
8-10-C22 (LOG) P3	AR-1408-0215	831-95C10	AR-1728-0007	8C-F2	AR-0419-0027
8-10-C22-82A	AR-1729-0021	832-95D10	AR-1728-0010	8C-F20/652-F7	AR-1703-0209
8-10-C23	AR-2201-0407	832-95D20/30	AR-1728-0104	8C-F21	AR-1703-0057
8-10-C32-920A	AR-1405-0187	832-95D20/30 (T)-RC (Phase 4)	AR-1728-0106	8C-F3	AR-0419-0035
8-10-C32-920A-RC	AR-1405-0184	832-95D20/30-RC (Phase 2)	AR-1728-0105	8C-F4	AR-0419-0036
8-10-C32-920B	AR-1408-0158	840-57E/43M30	AR-1716-0010	8C-F4/553-F10	AR-0419-0059
8-10-C32-920C-RC	AR-1405-0181	840-57E/43M40	AR-1716-0012	8C-F5/514-F2	AR-0419-0037
8-10-C32-921A	AR-1408-0156	840-57E10-RC	AR-1716-0009	8C-FC	AR-0419-0055
8-10-C32-922A	AR-1408-0157			8C-S13S/553-F4	AR-0419-0052
8-10-C32-922A-RC	AR-1729-0036			8C-S13V/553-ASIH2	AR-0419-0037
8-10-OA-81A	AR-1601-0065	8500	AR-1406-0112		AR-0419-0063
8-55-C20	AR-0419-0033	860-43E10	AR-1733-0008	8C-SQI2 (880A)	AR-1722-0005
8-55-C20-88A/C/D	AR-0419-0033	860-43E10 (ST)	AR-1733-0008	8D-4320	AR-0326-0053
8-55-C20-88A/C/D (BQ)	AR-0419-0062	860-43E1P	AR-1733-0008		AR-0326-0054
8-55-C20-95A/C/D	AR-0419-0033	860-43E30	AR-1733-0007	8D-4320 (JT)	AR-0326-0053
8-55-C22	AR-0419-0054	860-43E3P	AR-1733-0007		AR-0326-0054
8-55-C22-RC	AR-0419-0047	860-43E40	AR-1733-0004	8D-F1	AR-1408-0035
8-55-C32-880A/881A	AR-1408-0193	860-92R1P	AR-1733-0008	8D-F12	AR-0326-0010
8-641-C42	AR-0419-0024	860-92R3P	AR-1733-0007	8E-82G/8E-041A/800-F8	AR-1729-0032
	AR-0419-0049	860-92R4P	AR-1733-0004	8E-922A	AR-1729-0034
		860-F3	AR-1733-0009	8E-922A-RC	AR-1729-0037
8-77-C42	AR-1717-0092	860-F3 (ITRO)	AR-1733-0009	8E-92G/8E-922A-F8	AR-1729-0032
8-95-C42	AR-1728-0100	8A-F16	AR-0326-0047	8E-92G/8E-922A/800-F8	AR-1729-0032
8-E-44	AR-1405-0024		AR-0326-0048	8E-F3/551-F15	AR-1405-0180
8-R-932.2	AR-0709-0005	8A-F17	AR-1405-0211	8E-F4	AR-1729-0031
			AR-1405-0212	8E-F5/800-F17	AR-1729-0047
800	AR-1401-0042	8A-F19	AR-0326-0003	8G-82D/551-ASIU5	AR-1729-0029
800-91M10	AR-1729-0050		AR-1405-0213	8G-F1	AR-1405-0216
800-91M10-RC	AR-1729-0044		AR-1405-0214		AR-1405-0217
800-92G10	AR-1729-0041	8A-F23	AR-1408-0150	9-26-F45	AR-1408-0123
800-92G40	AR-1729-0040	8A-F3	AR-0326-0049	9-E-11	AR-2201-0096
800-94B10	AR-1729-0041		AR-0326-0050	90 OMS/UTES	AR-1405-0209
800-94B30	AR-1729-0039	8A-F32/552-F2	AR-1405-0165		AR-1405-0210
800-94B40	AR-1729-0040	8A-F33	AR-1405-0234	90-BSC	AR-1406-0137
800-94F10	AR-1729-0004	8A-F37	AR-1405-0191		
800-94F10-RC	AR-1729-0044	8B-761A	AR-1405-0170	911-09W	AR-2201-0285
800-94F30	AR-0104-0006	8B-920A	AR-1405-0185	92G30	AR-1729-0039
800-ASID1	AR-1729-0030	8B-920A-RC	AR-1405-0186	95B10-OSUT	AR-1728-0023
800-F15	AR-1729-0045	8B-920B	AR-1405-0188	95C10-OSUT	AR-1728-0007
800-F3	AR-1729-0043	8B-920B-RC	AR-1405-0190		
811-64C10	AR-1703-0059	8B-92A/B/8B-920A/920B	AR-1405-0177	ADP-15	AR-1715-0557
811-88M10	AR-1703-0059	8B-92D	AR-1733-0002	ADP-27	AR-1402-0107
811-88M30	AR-0419-0048	8B-92F	AR-1601-0097	ADP-30	AR-1402-0065
811-F3	AR-2101-0003	8B-F10	AR-0326-0008		AR-1402-0109
813-F1	AR-1715-0157		AR-0326-0051	ADP-31	AR-1402-0066
821-76W30	AR-1601-0072		AR-0326-0052	ADP-50	AR-1402-0108
821-77F10	AR-1601-0075	8B-F11	AR-1405-0215	ALM-34-0235	AR-1408-0035
821-77F10-RC	AR-1601-0076	8B-F17	AR-1405-0065	ALM-36-0217	AR-1401-0021
821-77F30	AR-1601-0072	8B-F20	AR-1408-0067	ALM-41-0251	AR-1405-0114
821-ASIH7	AR-2101-0003		AR-1408-0204	ALM-41-0339	AR-1405-0103
		8B-F20-RC	AR-1408-0154	ALM-42-0228	AR-0326-0008
822-76X10	AR-1405-0183	8B-F22	AR-1405-0123	ALM-44-0282	AR-1405-0116
822-88H10	AR-0419-0046	8B-F22/551-F22	AR-1405-0123	ALM-51-0297	AR-1402-0051
822-88H20	AR-1710-0150	8B-F37/551-ASIT8	AR-1405-0176	ALM-56-M115	AR-1405-0118
822-88H20/30	AR-1710-0150	8B-F38	AR-1402-0059		AR-1405-0231
822-88H40	AR-0419-0051	8B-F39/551-ASIM6	AR-1402-0102	ALM-59U210	AR-1402-0057
822-ASIB1	AR-2101-0002	8B-F44/551-F16	AR-1405-0160	ALM-59U260	AR-1402-0057
822-F10	AR-0419-0027	8B-F46/551-F23	AR-1405-0166	ALM-59U310	AR-1402-0057
822-F24	AR-2101-0002	8B-S14V	AR-0709-0047	ALM-61-0235	AR-1408-0075
829-F2	AR-1714-0034	8B-SI4V	AR-0709-0047	ALM-63-0449	AR-1115-0010
830-95B/C/D30	AR-1728-0102	8C-77D	AR-1703-0057	ALMC-31-0238	AR-1405-0226
830-95B10	AR-1728-0023	8C-880A	AR-1722-0006	ALMC-37	AR-1405-0226
	AR-1728-0107	8C-ASI3S/822-F10	AR-0419-0027	ALMC-38	AR-1405-0226
	AR-1728-0120	8C-F1	AR-1715-0157	ALMC-3L	AR-1405-0118
830-95B10-OST	AR-1728-0023	8C-F10	AR-1715-0157		AR-1405-0231
830-95B10/95C10	AR-1728-0107	8C-F10/062-F3	AR-1715-0157		AR-1405-0244

ALMC-5D.....	AR-1402-0057	CNC20.....	AR-1710-0065	PEC-P-PS2.....	AR-1406-0132
ALMC-6C.....	AR-1405-0218	CNC21.....	AR-1710-0070	PEC-P-UCT.....	AR-1403-0016
	AR-1405-0230	CNC22.....	AR-1710-0066		
ALMC-6D.....	AR-1405-0219	CNC23.....	AR-1710-0073	PEC-T-BTE-X-XX.....	AR-1406-0138
ALMC-7X.....	AR-1405-0220	CNC24.....	AR-1710-0068	PEC-T-BTO-X-XX.....	AR-1406-0133
ALMC-AH.....	AR-1405-0221	CNC25.....	AR-1710-0067	PEC-T-NCOIC-X-XX.....	AR-1406-0135
ALMC-B3.....	AR-1408-0187	CNC26.....	AR-1710-0069	PEC-T-O-LDC.....	AR-2201-0387
	AR-1408-0199	CNC28.....	AR-1710-0082	PEC-T-O-SET.....	AR-1405-0208
ALMC-B4.....	AR-1408-0188	CON 101.....	AR-0326-0053	PEC-T-O-SET91.....	AR-1405-0208
ALMC-BA.....	AR-1115-0010		AR-0326-0054	PEC-T-TNCO-X-XX.....	AR-1406-0136
ALMC-BE.....	AR-0707-0011	CON 211.....	AR-0326-0010		
ALMC-CB.....	AR-1408-0056		AR-0326-0057	PLDC-RC.....	AR-2201-0294
ALMC-CC.....	AR-0301-0003	CON 233.....	AR-1401-0021		
	AR-0301-0004	CON 241.....	AR-1408-0120	PQM 103.....	AR-1408-0035
ALMC-CE.....	AR-1401-0021	CSM 206.....	AR-1408-0159		
ALMC-CL.....	AR-1408-0189	DA 482.....	AR-1512-0015	PUR 101.....	AR-1408-0187
ALMC-CM.....	AR-1408-0121	DA 483.....	AR-1512-0014	PUR 301.....	AR-1408-0188
ALMC-DA.....	AR-0326-0012	DA 484.....	AR-1512-0012		
ALMC-DC.....	AR-0326-0013	DA 486.....	AR-1512-0013	RC-011-68L30.....	AR-1715-0967
ALMC-DT.....	AR-1408-0075			RC-011-68P40.....	AR-1715-0966
ALMC-DX.....	AR-1402-0051	DL 471.....	AR-0505-0001		
ALMC-FF.....	AR-1406-0167	EH 456.....	AR-0326-0044	RCY 221T.....	AR-1710-0139
ALMC-FG.....	AR-1408-0118	FC-F21 (ARNG).....	AR-1408-0183	RCY/221W.....	AR-1710-0153
ALMC-IB.....	AR-1408-0190	FE-F0A-F19.....	AR-1405-0147		
ALMC-IC.....	AR-1405-0243			RM415.....	AR-1401-0022
	AR-1408-0191	G2ASR32470 016.....	AR-1303-0004	SAM 31.....	AR-2201-0341
ALMC-IF.....	AR-1402-0137	G2ASR32470 017.....	AR-1402-0133	SAMIS 90.....	AR-1402-0136
ALMC-IJ.....	AR-1408-0116	G2ASR32470 218 (35H30).....	AR-1715-0856		
ALMC-IN.....	AR-1408-0216			SD-315.....	AR-1710-0158
	AR-0326-0055	G3AAR23199 000.....	AR-1719-0005	SIG 1.....	AR-1715-0793
ALMC-IT.....	AR-0326-0056	G3ABR30435.....	AR-1715-0934	SIG 2.....	AR-1715-0549
ALMC-LR.....	AR-0326-0056	G3AZR23171 000.....	AR-0202-0001	SIG 29.....	AR-1715-0795
ALMC-LV.....	AR-1405-0222	G3AZR23171 000 (25Q30).....	AR-0202-0001	SIG 33.....	AR-1715-0794
ALMC-LW.....	AR-1405-0223	G3AZR23172 002.....	AR-0202-0002	SIG 34.....	AR-1715-0614
ALMC-MG.....	AR-1406-0144		AR-1709-0011	SIG 35.....	AR-1715-0554
ALMC-MH.....	AR-1405-0103	G3AZR23270 001.....	AR-1719-0004	SIG 35 AM.....	AR-1715-0792
ALMC-ML.....	AR-1408-0122	G3AZR23270 001 (25P30).....	AR-1719-0004	SIG 7.....	AR-1404-0038
ALMC-MM.....	AR-1405-0226			SIG 9.....	AR-1715-0791
ALMC-MN.....	AR-1405-0226	GG-F3/321-F3.....	AR-0102-0008	SLL 90.....	AR-1405-0205
ALMC-MP.....	AR-1405-0224	GP.....	AR-2204-0086	SNCO 90.....	AR-1405-0204
ALMC-MS.....	AR-0326-0045	GPL.....	AR-2204-0085	TRT 316.....	AR-1710-0143
ALMC-NE.....	AR-1405-0225	INT 3.....	AR-1606-0175	TRT 317.....	AR-1710-0144
ALMC-OM.....	AR-1402-0138	INT 3-OE.....	AR-1606-0175	TRT 318.....	AR-1710-0145
ALMC-PD.....	AR-1408-0114	IT24.....	AR-1406-0094	TS111A.....	AR-1402-0125
ALMC-RC.....	AR-2201-0413	LOG 201.....	AR-0326-0055	TS111B.....	AR-1402-0122
ALMC-SA.....	AR-1402-0164	LOG 202.....	AR-0326-0056	TS112.....	AR-1402-0123
ALMC-SB.....	AR-1402-0139	LOG 205.....	AR-1405-0221	TS113.....	AR-1402-0124
	AR-1402-0164	LOG 213 (OMS-33).....	AR-1704-0169		
ALMC-SC.....	AR-1115-0014	LOG 215.....	AR-1710-0142	TVM 216.....	AR-1710-0147
	AR-1405-0145	LOG 303.....	AR-1405-0221	TVM 217.....	AR-1710-0148
ALMC-SK.....	AR-1402-0140	LOG 71.....	AR-1405-0194	TVM 218.....	AR-1704-0170
ALMC-SO.....	AR-2201-0414	LOG 73.....	AR-1403-0011	TVM 219.....	AR-1710-0146
ALMC-ZX.....	AR-1408-0120	LOG 74.....	AR-1405-0195	TVM 220.....	AR-1710-0080
	AR-1408-0192	LOG 75.....	AR-1729-0042		AR-1710-0149
AMLC-AH.....	AR-1405-0221	MP-23.....	AR-1728-0078	UGC-1.....	AR-1715-0555
AQD.....	AR-2201-0409	MP-30.....	AR-1728-0077	UGC-2.....	AR-1715-0556
B-302-0045.....	AR-0708-0001	MVS 3.....	AR-1402-0105	UGC-3.....	AR-1404-0029
B-302-A045.....	AR-0708-0001	MVS 5.....	AR-1402-0103	WHO2.....	AR-1402-0094
B-303-0051.....	AR-0704-0012	NBC 54.....	AR-0801-0023	WPG-222.....	AR-1704-0171
B-303-A051.....	AR-0704-0001	NGB-PLDC (AC).....	AR-2201-0253	XX91.....	AR-1408-0107
	AR-0704-0012	O-111-C42.....	AR-2201-0181		
B-311-0011.....	AR-0702-0013	O-16-C42.....	AR-1406-0035		
BSC-90.....	AR-1406-0137	O-19-C42.....	AR-1408-0144		
C-30-C22-35.....	AR-1606-0196	O12-F19.....	AR-0803-0015		
C10-11C40.....	AR-2201-0430	O1O-ASIU3.....	AR-2201-0431		
C3ABR57130 002.....	AR-1728-0113	O82.....	AR-2201-0410		
C3AZR57150 001.....	AR-0802-0026	ODCC 1-90.....	AR-0326-0046		
C3AZR57170 001.....	AR-1728-0111	PEC-C-IPC.....	AR-1402-0135		
C3AZR57170 009.....	AR-1728-0112	PEC-O ODF.....	AR-1405-0206		
CC/FS25.....	AR-1408-0160	PEC-P-A03.....	AR-1408-0182		
CC205.....	AR-1408-0160				
CC205/FS202.....	AR-1408-0160				



Appendix F

Conversion of Army Enlisted and Warrant Officer Military Occupational Specialties to Department of Defense Occupational Codes

This appendix is designed to aid the user in determining the Army formal course number when only the MOS code is known.

The number that the Army assigns to a formal course for enlisted personnel often consists of a three-digit Department of Defense (DoD) occupational code followed by the five-digit code for the MOS and skill level associated with the course, e.g., 300-91C10. In order to use the Course Number Index to locate a specific course exhibit ID number, the user must know the entire official Army course number. However, on some soldiers' records the entire course number is not given; instead, the military record may list the course number as only the MOS and skill level, without the DoD code.

For example, the Army course number for the course that trains persons for MOS 13E (Cannon Fire Direction Specialist) is 250-13E10. When a soldier's record incompletely lists the course number as 13E10, the user can refer to MOS 13E in this appendix to find the DoD occupational code, 250. The user can then turn to 250-13E10 in the Course Number Index to find the ID number of the course exhibit, which in this example is AR-1715-0844.

MOS	DOD CODE	MOS	DOD CODE	MOS	DOD CODE
00B	433	03B	.562	13A	.041
00C	830	03C	.562	13B	.041
00D	920	03D	.562	13C	.250
00E	501	03Z	.562	13E	.250
00F	012			13F	.250
00G	600	04B	.241	13M	.042
00H	801	04C	.241	13N	.042,043,221
00J	800			13P	.043
00R	501	05B	.201	13R	.221
00U	500,762	05C	.201	13T	.221,250
00Z	521	05D	.231	13W	.250
		05E	.201	13Y	.041
01B	440	05F	.201	13Z	.041
01C	440	05G	.231		
01D	440	05H	.231	14D	.043
01E	440	05K	.231	14J	.043
01F	440			14R	.043
01G	440	09C	.920	14S	.043
01H	311,440,496	09D	.912		
01K	500	09R	.912	15B	.043
01L	541	09S	.911	15D	.043
		09T	.911	15E	.043
02B	450	09W	.911	15F	.042
02C	450			15J	.043,250
02D	450	11B	.010	15Z	.043
02E	450	11C	.010		
02F	450	11D	.250	16B	.043
02G	450	11E	.020	16C	.043
02H	450	11F	.250	16D	.043
02J	450	11G	.010	16E	.043
02K	450	11H	.010	16F	.043
02L	450	11M	.010	16G	.043
02M	450	11Z	.010	16H	.250
02N	450			16J	.221
02P	450	12A	.030	16K	.221
02Q	450	12B	.030	16L	.041
02R	450	12C	.030	16P	.043
02S	450	12D	.030	16R	.041,043
02T	450	12E	.030,431	16S	.043
02U	450	12F	.030	16T	.043
02Z	450	12Z	.030	16Z	.043

F-2 APPENDIX F

MOS	DOD CODE	MOS	DOD CODE	MOS	DOD CODE
17A	221	24U	121	29W	101
17B	221	24V	121	29X	101
17C	241,250,412	24W	121	29Y	102
17D	412			29Z	101
17E	030	25D	150		
17K	221	25G	150	31B	101
17L	221,233	25H	150	31C	201
17M	221	25J	150	31D	101,260
17Z	221	25K	150	31E	101
		25L	150	31F	260
18B	011	25P	400	31G	101
18C	011	25Q	414	31J	160
18D	011	25R	400,570	31K	201
18E	011	25S	400	31L	101,621
18F	011	25Z	150,400,570	31M	202
18Z	011			31N	101,202,260
		26B	104	31Q	201
19D	250	26C	104	31R	198
19E	020	26D	104	31S	160
19F	020	26E	104	31T	160
19G	020	26F	198	31U	101,160
19H	020	26H	104	31V	101
19J	020	26K	104	31W	101,260
19K	020	26L	101	31X	101
19L	020	26M	104	31Y	260
19Z	020	26N	104	31Z	260
		26P	198		
21G	121	26Q	201	32A	101
21L	121	26R	201	32C	101
21M	121	26T	191,570	32D	101
21R	121	26V	101	32E	101
21S	121	26W	104	32F	160
21T	121	26Y	102	32G	160
21U	121			32H	101
		27B	121	32Z	101
22G	121	27C	121		
22K	121	27D	121,122	33B	102
22L	121	27E	121	33C	102
22M	121	27F	101,121	33D	102
22N	121	27G	121	33F	102
		27H	121	33G	102
23N	104	27J	104	33M	102
23Q	121	27K	104	33P	102
23R	632	27L	632	33Q	102
23S	104	27M	121,611,632	33R	102
23T	104	27N	104	33S	102
23U	104	27P	121	33I	102
23V	121	27Q	122	33V	102
23W	104	27T	121	33Y	102
		27V	121	33Z	102
24B	104	27X	121		
24C	121,632	27Z	121	34B	150
24D	121			34C	150
24E	121	28M	121	34D	150
24F	121			34E	150
24G	104,121,632	29E	101	34F	150
24H	104,121,122	29F	101,160,820	34G	113
24J	104	29G	150	34H	150
24K	104	29H	150	34J	150
24L	121	29J	160,822	34K	150
24M	121,632	29M	101,720	34L	150
24N	121,632	29N	622,822	34M	150
24P	104	29P	160,820	34T	150
24Q	121	29S	160,820	34Y	113
24R	121,632	29T	101,201	34Z	150
24S	121	29U	150		
24T	632	29V	101,102	35B	198

MOS	DOD CODE	MOS	DOD CODE	MOS	DOD CODE
35C	198	44E	702	54E	494
35D	198	44K	704	54F	030
35E	198	44Z	700	54Z	494
35F	140				
35G	198,326	45A	640	55A	645
35H	198	45B	641	55B	645
35J	112	45D	642,643	55C	645
35K	102	45E	643	55D	431
35L	102	45G	113	55G	644
35M	102	45J	646	55R	551
35N	102	45K	643	55X	645
35P	102	45L	642	55Z	645
35R	102	45M	646		
35S	198	45N	643	57A	850
35T	198	45P	643	57C	760
35U	198,326	45R	643	57D	710
35Y	198	45T	611,643	57E	840
		45Z	640	57F	492
36C	621			57G	850
36D	621	46A	632	57H	822
36E	621	46D	121		
36G	622	46L	631	61A	062
36H	622	46N	631	61B	062
36L	622	46Q	570,631	61C	652
36M	621	46R	570	61D	062
		46Z	570	61E	652
37F	243			61F	704
				61Z	062
38A	570	51A	710		
		51B	712	62B	612
39B	198,201,726	51C	710	62C	633
39C	104	51D	710	62D	730
39D	150	51E	790	62E	713,730
39E	198	51F	710	62F	713,730
39G	150	51G	491	62G	713,730
39K	150	51H	710	62H	713,730
39L	113,150	51J	720	62J	713,730
39T	150	51K	720	62K	730
39V	101,150	51L	720	62L	730
39W	101	51M	495,780	62M	730
39X	101	51N	720	62N	713,730
39Y	113	51P	720		
		51Q	491	63A	610
41B	670	51R	721	63B	610
41C	670	51T	413	63C	611
41E	198	51Z	710	63D	611
41F	198			63E	611
41G	198	52A	721	63F	610
41H	198	52B	662	63G	610
41J	670	52C	662	63H	610,611
41K	690	52D	662	63J	690
		52E	662	63K	690
42C	304	52F	662	63N	611
42D	331	52G	721	63R	611
42E	311,323	52H	661	63S	610
42F	331	52J	661	63T	611
		52K	661	63W	610
43A	760	52L	661	63Y	611
43E	860	52M	661	63Z	610
43J	760	52X	610		
43K	760			64C	811
43L	760	53B	750	64Z	811
43M	760	53C	750		
				65A	690
44A	700	54A	030	65B	690
44B	704	54B	030,494	65C	662
44C	701	54C	030	65D	690
44D	701	54D	690	65E	690

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MOS	DOD CODE	MOS	DOD CODE	MOS	DOD CODE
65F	662	71Q	570	82C	412
65G	850	71R	570	82D	412
65H	850	71S	243	82E	412
65J	812	71T	510		
65K	553,812	71U	531	83A	740
65Z	812			83D	740
		72B	580	83E	740
66G	600	72C	580	83F	740
66H	600	72D	580	83Z	740
66J	600	72E	260,580		
66N	600	72F	580	84H	400
66R	600	72G	260,580	84C	400
66S	600	72H	260,580	84D	191
66T	600			84E	400
66U	600	73C	542	84F	400
66V	600	73D	541	84G	400
66X	600	73Z	542	84T	570
66Y	600			84Z	570
		74B	531		
67A	600	74C	260,531	88H	822
67B	600	74D	531	88K	062
67C	600	74E	531	88L	652
67F	600	74F	532	88M	811
67G	600	74G	531	88N	553
67H	600	74Z	531	88P	690
67M	600			88Q	690
67N	600	75B	500	88R	690
67P	600	75C	500	88S	662
67R	600	75D	500	88T	850
67S	600	75E	500	88U	812
67T	600	75F	500	88V	812
67U	600	75Z	500	88W	553
67V	600			88X	812
67W	600	76A	551	88Y	062
67X	600	76C	551	88Z	811
67Y	600	76D	551		
67Z	600	76J	340,551	91A	300
		76L	400	91B	300
68A	600	76N	551	91C	300
68B	601	76P	551	91D	301
68C	601	76Q	551	91E	330
68D	602	76R	551	91F	302
68E	602	76S	551	91G	302
68F	602	76T	551	91H	304
68G	603	76U	551	91J	303
68H	602	76V	551	91K	303
68J	102,602,646	76W	821	91L	303
68R	602	76X	551,822	91M	311,800
68L	102	76Y	552	91N	300,311
68M	602,646	76Z	551	91P	313
68N	102			91Q	312
68P	102,602	77F	821	91R	321
68Q	102	77L	491	91S	322
68R	102	77W	720	91T	321
68X	646			91U	300,301
		79D	501	91V	300
71B	510			91W	300,311,313
71C	511	81A	413	91X	322,324
71D	512	81B	413	91Y	300,323
71E	511,512	81C	411	91Z	300
71F	515	81D	411		
71G	340,513	81E	414	92A	551
71H	500	81F	790	92B	311
71L	510	81Q	411	92D	491
71M	561	81Z	412	92E	311
71N	514,553			92Y	551
71P	517,556	82A	412	92Z	552
		82B	412		

MOS	DOD CODE	MOS	DOD CODE	MOS	DOD CODE
93B	250	100R	2B	350D	3A
93C	222	130A	4F	350L	3A
93D	102,191	130B	4F	351B	3C
93E	420	131A	4C	351C	3A
93F	420	131B	4F	351D	3A
93H	222	132A	5B	351E	3A
93J	222	140A	4F	352C	3B
93K	222	140B	4F	352D	3B
93T	222	140C	4F	352G	3B
93P	556	140D	4F	352H	3B
		140E	4F	352J	3B
94A	800	150A	2G	352K	3B
94B	800	151A	4D	353A	4C
94C	800	152B	2C	401A	4N
94D	800	152C	2C	411A	4E
94F	325,800	152D	2C	420A	7C
94Z	800	152F	2C	420C	7N
		152G	2C	420D	8E
95B	830	153A	2C	421A	4E
95C	831	153B	2C	441A	4L
95D	832	153C	2C	500A	8C
		153D	2C	510A	4H
96B	243	154A	2C	550A	5F
96D	242	154B	2C	600A	6H
96F	243	154C	2C	621A	4L
96H	233	155A	2B	630A	4L
96R	243	155D	2B	630B	4L
96U	243	155E	2B	630C	4L
96Z	243	156A	2B	630L	4L
		160A	4D	630E	4L
97B	244	180A	2E	640A	6G
97C	244	201A	5B	670A	6H
97D	244	202A	5B,6I	711A	7C
97E	241,243	210A	4A	712A	7A
97F	120	211A	4C	713A	5F
97G	231	212A	4F	741A	7E
97Z	231,243,244	213A	4L	761A	8B
		214E	4F	762A	8B
98B	232	214G	4F	811A	4M
98C	232	215A	4M	821A	4M
98D	231	215B	4M	833A	8G
98G	231	215C	8G	841A	4N
98H	231	215D	4N	880A	8C
98J	233	221B	4F	881A	4H
98K	231	222R	4B	910A	4E
98Z	230	222C	4B	911A	4E
		223B	4F	912A	4F
001A	9E	224B	4F	913A	4E
002A	9A	224D	4F	914A	4L
003A	9B	225B	4F	915A	4L
004A	9E	225D	4F	915B	4L
005A	9E	250A	4C	915C	4L
006A	9E	250B	4C	915D	4L
007A	9E	251A	7E	915E	4L
008A	9E	252A	4B	916A	4F
011A	6H	256A	4C	917A	4F
021A	8E	257A	4B	918A	4B
031A	7N	260A	4E	919A	4L
041A	8E	271A	4F	920A	8B
051A	6G	285A	4C	920B	8B
100A	2C	286A	4C	921A	4N
100K	2C	287A	4B	922A	8E,8G
100C	2C	290A	4C	951A	7H
100D	2C	310A	4A	961A	3A
100E	2C	311A	7H	962A	3A
100K	2C	350B	3A	964A	3A
100Q	2B				

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MOS	DOD CODE	MOS	DOD CODE	MOS	DOD CODE
971A	3C				
972A	3A				
973A	3A				
982A	3B				
983A	3B				
984A	3B				
985A	3B				
986A	3B				
988A	3B				

REQUEST FOR COURSE RECOMMENDATION

The applicant for credit must fill out one form for *each* service school course completed. The institutional official is responsible for verifying from official military records that the student completed the entire course, and for submitting the form to The Center for Adult Learning and Educational Credentials, American Council on Education, One Dupont Circle, Washington, DC 20036-1193. ATTN: Military Evaluations. *Please Print.*

1. *Exact* course title (*do not abbreviate*) _____

2. Service branch offering the course:

- ☐ Air Force
☐ Army
☐ Coast Guard

- ☐ Department of Defense
☐ Marine Corps
☐ Navy

3. Name of service school attended: _____

4. Location (installation, state): _____

5. Length of course (*in weeks*): _____

6. Dates of attendance:

From: _____
 day/month/year

To: _____
 day/month/year

7. Official military course number: _____

8. MOS/AFSC/Rating: _____

9. Course was designed for:

- ☐ Warrant Officers
☐ Officer Candidates
☐ Commissioned Officers

- ☐ Enlisted Personnel
☐ Aviation Cadets
☐ Noncommissioned Officers

10. Rank or rating upon completion of the course: _____

11. Please give some indication of subjects studied in course:

NAME OF STUDENT _____

SIGNATURE OF COLLEGE OFFICIAL _____

NAME OF COLLEGE OFFICIAL _____

TITLE _____

INSTITUTION _____

STREET _____

CITY _____

STATE _____

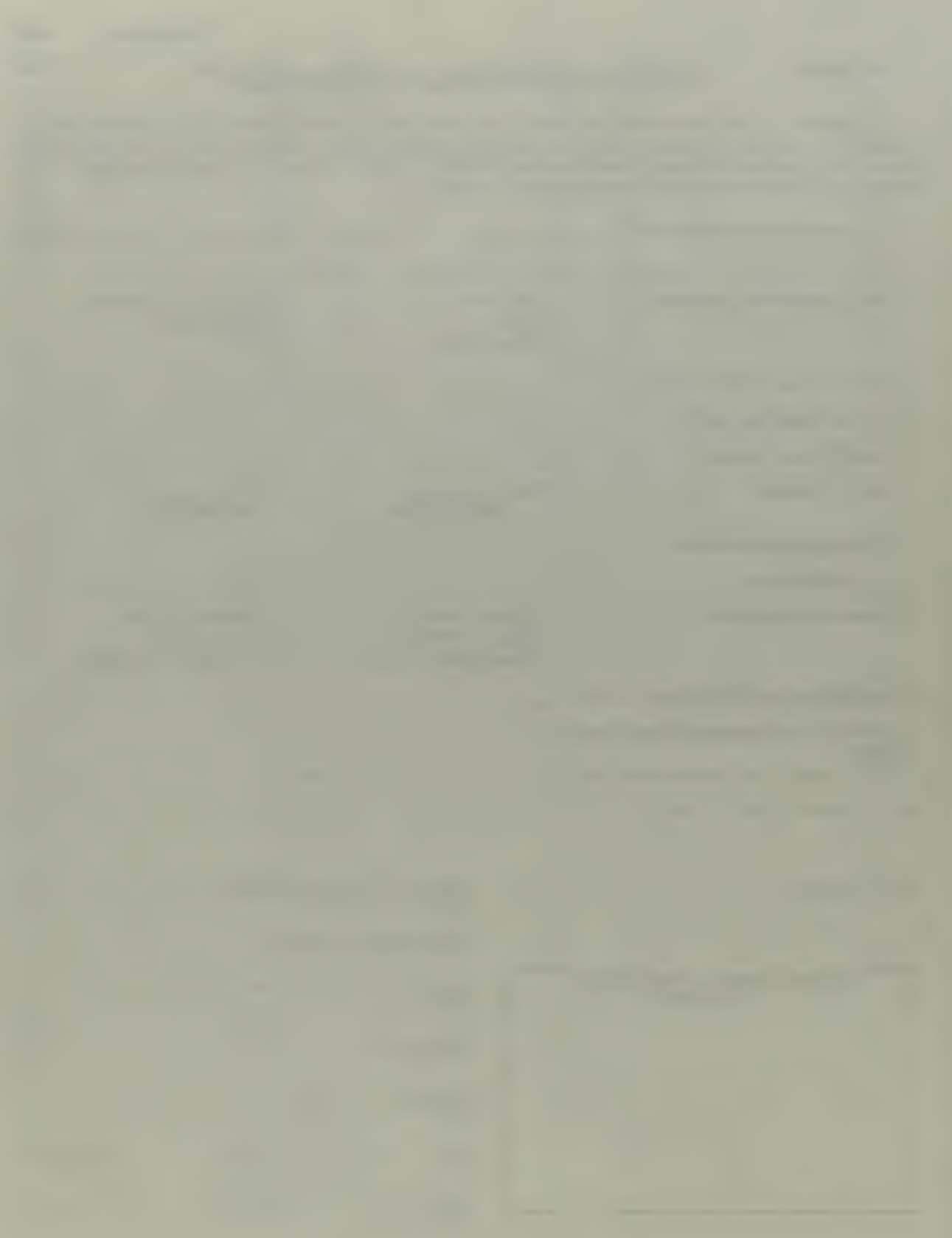
ZIP CODE _____

AREA CODE _____

NUMBER _____

EXT. _____

**DO NOT WRITE IN THIS SPACE
STAFF USE**



REQUEST FOR ARMY ENLISTED AND WARRANT OFFICER MOS EXHIBITS

This form should be used to request MOS exhibits from 1/90 to the present that are not found in the *Guide* or the *Handbook*. Clearly mark the MOS designation (e.g., 91B0), the MOS title, and the name of the applicant. Submit the form to The Center for Adult Learning and Educational Credentials, American Council on Education, One Dupont Circle, Washington, DC 20036-1193, Attention Military Evaluations.

MOS	MOS Title Please print; do not abbreviate.	Name of Applicant

**DO NOT WRITE IN THIS SPACE
STAFF USE**

SIGNATURE OF OFFICIAL

NAME OF OFFICIAL

TITLE

INSTITUTION OR ORGANIZATION

STREET

CITY

STATE

ZIP CODE

AREA CODE

NUMBER

EXT.

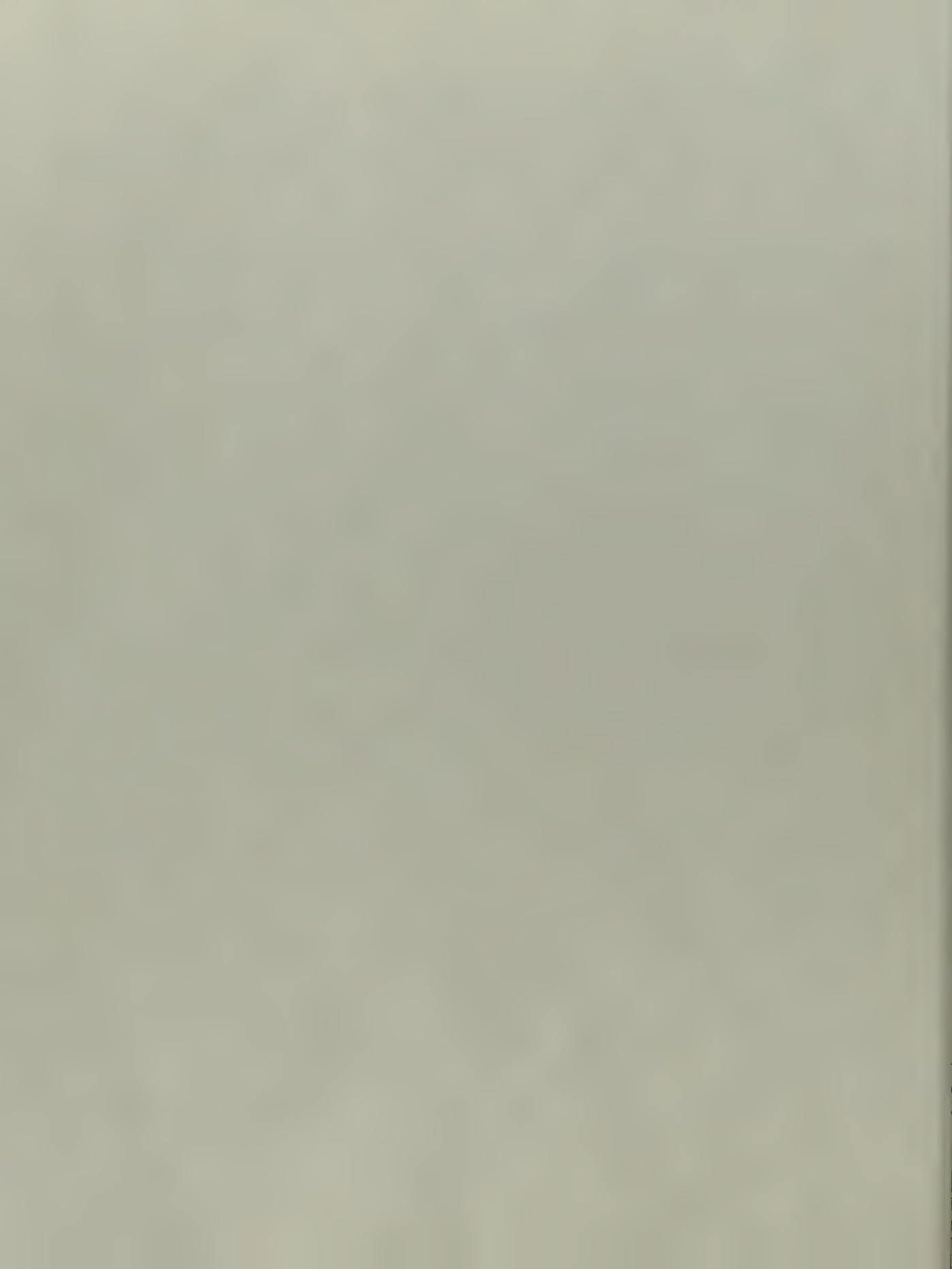
Please retain file copies of any occupation recommendations received from the Advisory Service.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the integrity of the financial system and for ensuring that all parties involved are held accountable for their actions.

2. The second part of the document outlines the specific procedures for recording transactions. It details the steps that must be followed to ensure that all information is captured accurately and that the records are easily accessible and auditable. This includes instructions on how to handle different types of transactions, such as sales, purchases, and transfers.

3. The third part of the document discusses the role of the accounting department in maintaining these records. It highlights the importance of the accounting team in ensuring that all transactions are properly recorded and that the records are kept up-to-date. It also mentions the need for regular audits to verify the accuracy of the records and to identify any potential discrepancies.

4. The final part of the document provides a summary of the key points discussed and offers some concluding thoughts on the importance of maintaining accurate records. It reiterates that proper record-keeping is not just a legal requirement, but also a best practice for any organization that wants to ensure the transparency and reliability of its financial data.



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